

CARMONA RESOURCES



SITE INFORMATION

Closure Report
Bonnie 35 Federal Com #004H (04.17.2018)
Incident ID: NAB1812231599
Eddy County, New Mexico
Unit O Sec 35 T25S R26E
32.079792°, -104.262311°

Point of Release:

Manual release valve on wellhead failed, releasing produced water and oil

Release Date: 04.17.2018

Volume Released: 4 Barrels of Crude Oil and 5 Barrels of Produced Water

Volume Recovered: 0 Barrels of Crude Oil and 0 Barrels of Produced Water

CARMONA RESOURCES



Prepared for:
Cimarex Energy Co.
6001 Deauville Blvd.
Suite 300N
Midland, Texas 79706

Prepared by:
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432.813.1992

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January 20, 2025

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

Re: Closure Report
Bonnie 35 Federal Com #004 (04.17.2018)
Incident ID: NAB1812231599
Cimarex Energy Co.
Site Location: Unit O, S35, T25S, R26E
(Lat 32.079792°, Long -104.262311°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Cimarex Energy Co. (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for the Bonnie 35 Federal Com #004. The site is located at 32.079792°, -104.262311° within Unit O, S35, T25S, R26E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on April 17, 2018, caused by the manual wing valve on the wellhead failing releasing produced water and crude oil. It resulted in approximately four (4) barrels of crude oil and five (5) barrels of produced water to spill, of which zero (0) barrels of crude oil and zero (0) barrels of produced water were recovered. The impacted area was located on the pad. Refer to Figure 3 for a spill overview. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is approximately 2.00 miles South of the site in S12, T26S, R26E and was drilled in 2018. The well has a reported depth to groundwater of 24.55 feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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



4.0 Historical Assessment

Initial Soil Assessment

On September 20, 2018, a third-party contractor performed site assessment activities to evaluate soil impacts. To assess the vertical extent, eight (8) auger holes (AH-1 through AH-8) were advanced to depths ranging from the surface to 1.5' bgs. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Xenco Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. Due to dense geological formations, vertical delineation was not achieved for the areas of AH-1, AH-3, and AH-4. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. Refer to Table 1.

Borehole Assessment

On November 30, 2018, the third-party contractor returned to the site to install three (3) bore holes (BH-1 through BH-3) to depths ranging from the surface to 7.0' bgs for further delineation. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Xenco Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. Refer to Table 1. Based off the assessment results, a work plan was created, submitted to the Oil Conservation Division, but no evidence of remediation taking place. Refer to Appendix F for the historical work plan.

5.0 Site Assessment Activities

On January 6, 2025, Carmona Resources, LLC performed site assessment activities to evaluate if any soil impacts were found in the pasture surrounding the well pad following the submittal of the work plan in 2018. Samples were placed on the eastern and southern boundaries of the well pad due to the natural drainage path of the well pad flowing southeast. To assess the horizontal extent, seven (7) horizontal sample points (S-1 through S-7) were advanced to depths ranging from the surface to 1.0' bgs. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Labs in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. All samples were below regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

6.0 Remediation Activities

On December 16, 2024, through December 31, 2024, Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOC division office was notified via web portal on December 10, 2024, December 27, 2024, and January 2, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of AH-1/BH-1 was excavated to a depth of 3.5' bgs, and the area of AH-3/BH-2 through AH-4/BH-3 was excavated to a depth of 2.0'-2.25' bgs. A total of thirty-eight (38) confirmation floor samples (CS-1 through CS-38) and ten (10) sidewall samples (SW-1 through SW-10) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected



samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA Method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4A through Figure 4B.

All final confirmation samples were below the reclamation and 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. A composite sample of the backfill material was collected for laboratory analysis on December 20, 2024, before being utilized. Approximately 7,356 square feet of contamination were remediated, resulting in 440 cubic yards of material being excavated and transported offsite for proper disposal.

7.0 Conclusions

Based on the remediation results and the analytical data, no further actions are required at the site. The final C-141 is attached, and Cimarex formally requests closure of the spill. 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

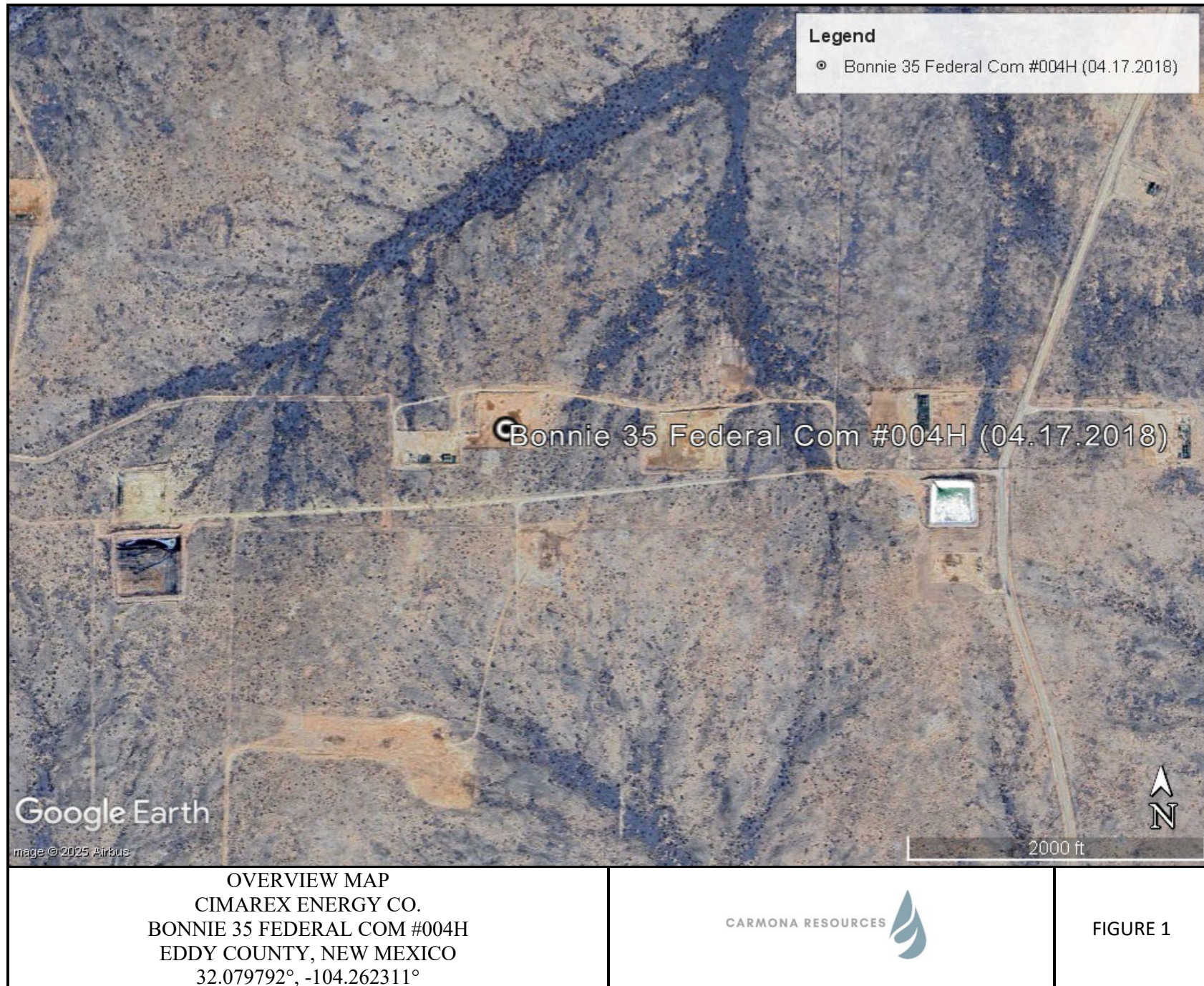
Ashton Thielke
Environmental Manager

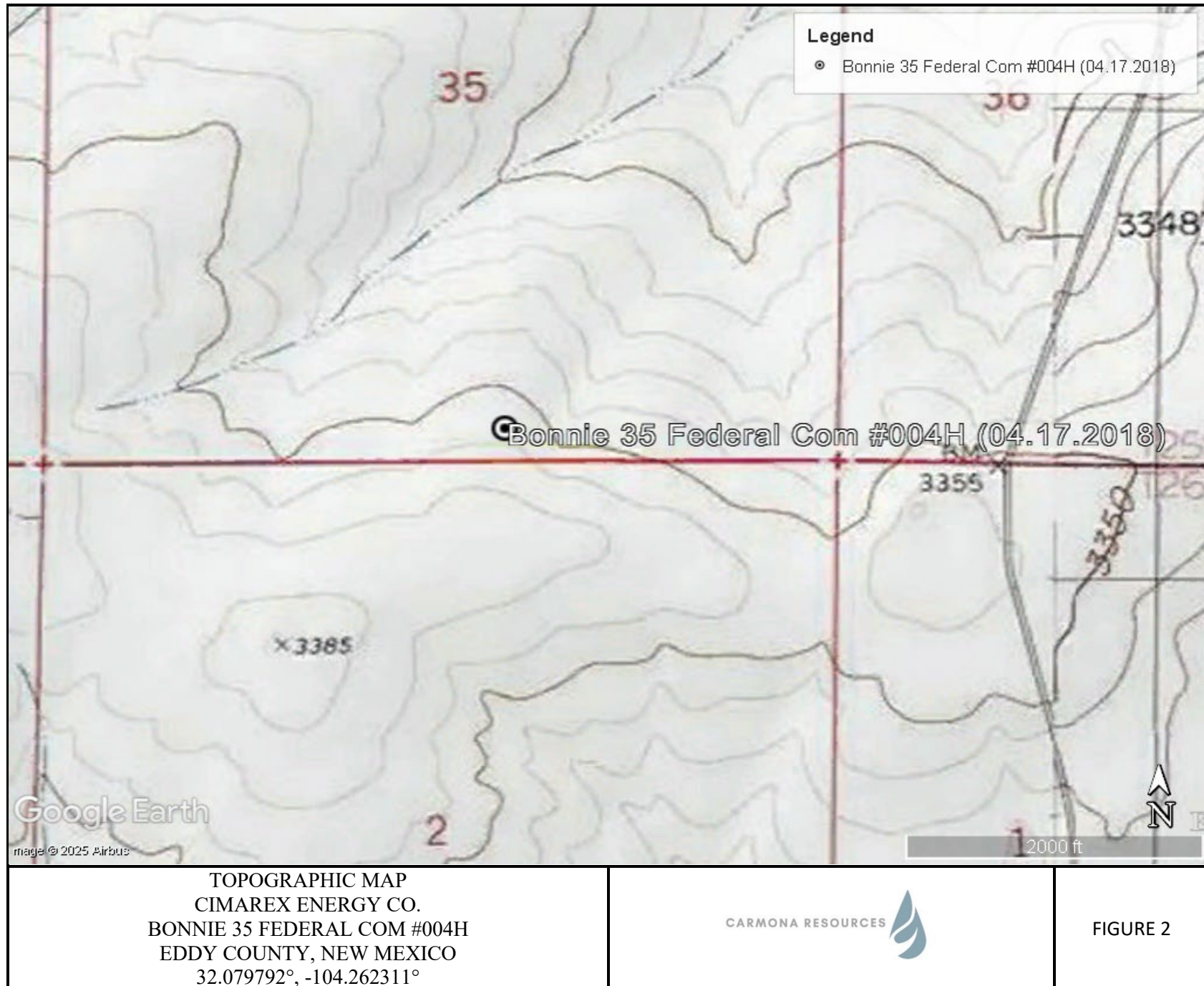
Gilbert Priego Jr.
Sr. Project Manager

FIGURES

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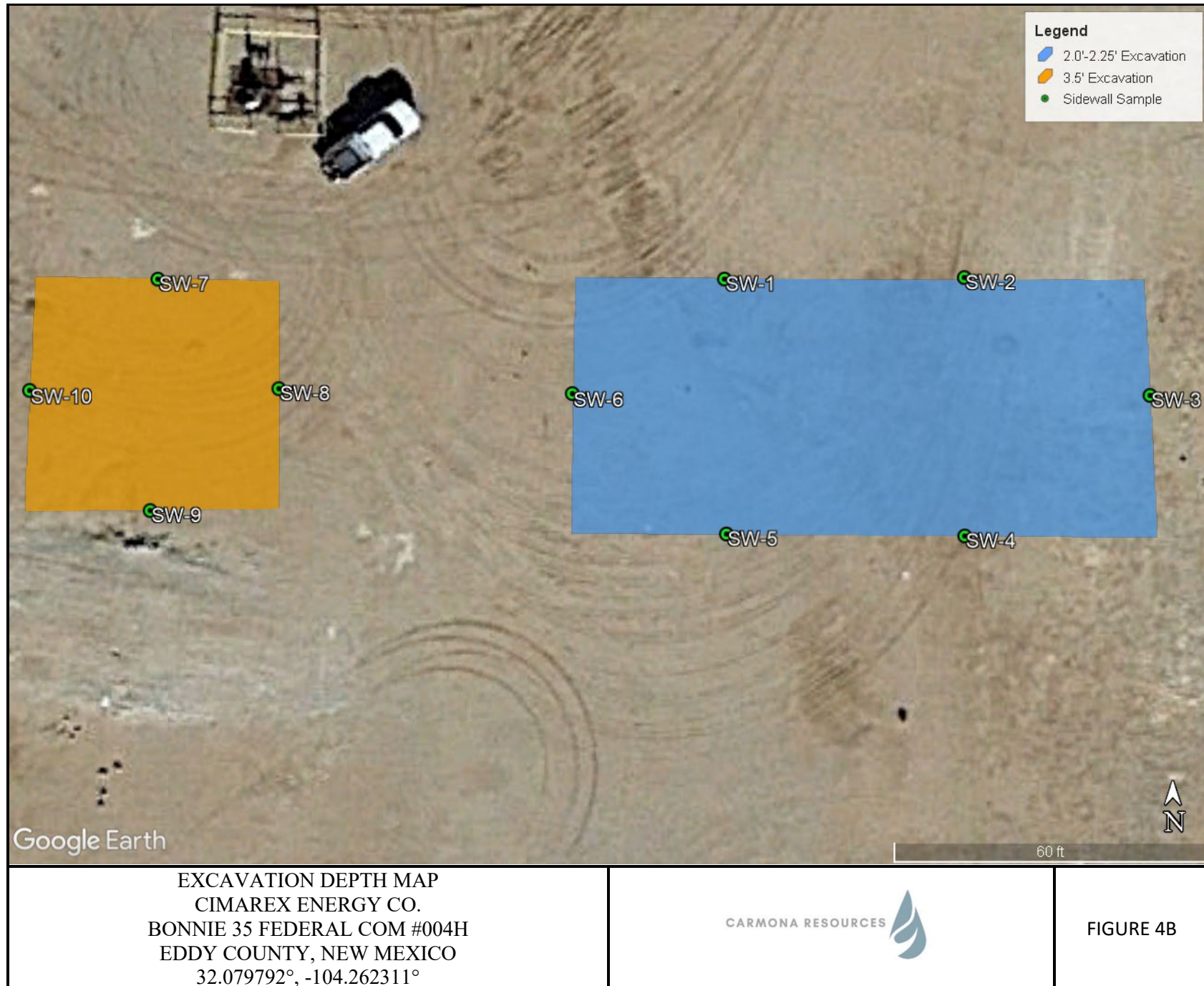












APPENDIX A

CARMONA RESOURCES



Table 1
Cimarex Energy
Bonnie 35 Federal #4H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	C6-C10	C10-C28	C28-C35	Total						
AH-1	9/20/2018	0-1	X		<15.0	222	39.7	262	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2,470
BH-1	11/30/2018	0-1	X		<15.0	141	39.5	181	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,080
	"	2-3	X		<15.0	28.2	<15.0	28.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	1,390
	"	4-5	X		-	-	-	-	-	-	-	-	-	335
	"	6-7	X		-	-	-	-	-	-	-	-	-	287
AH-2	9/20/2018	0-1	X		<15.0	17.7	<15.0	17.7	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	158
AH-3	9/20/2018	0-1	X		<14.9	<14.9	<14.9	<14.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	2,310
	"	1-1.5	X		<14.9	<14.9	<14.9	<14.9	<0.00200	<0.00200	<0.00200	<0.00200	-	1,650
BH-2	11/30/2018	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	3,180
	"	2-3	X		<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	478
	"	4-5	X		-	-	-	-	-	-	-	-	-	40.7
	"	6-7	X		-	-	-	-	-	-	-	-	-	<5.03
AH-4	9/20/2018	0-1	X		<14.9	<14.9	<14.9	<14.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	3,470
	"	1-1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	1,240
BH-3	11/30/2018	0-1	X		<14.9	<14.9	<14.9	<14.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	531
	"	2-3	X		<14.9	<14.9	<14.9	<14.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	27.1
	"	4-5	X		-	-	-	-	-	-	-	-	-	15.7
	"	6-7	X		-	-	-	-	-	-	-	-	-	16.1

Table 1
Cimarex Energy
Bonnie 35 Federal #4H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	C6-C10	C10-C28	C28-C35	Total						
AH-5	9/20/2018	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	297
AH-6	9/20/2018	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	116
AH-7	9/20/2018	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	90.9
AH-8	9/20/2018	0-6"	X		<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	145
Background	11/30/2018	0-1	X		-	-	-	-	-	-	-	-	-	<4.95
	"	2-3	X		-	-	-	-	-	-	-	-	-	<4.99
	"	4-5	X		-	-	-	-	-	-	-	-	-	28.4
	"	6-7	X		-	-	-	-	-	-	-	-	-	111
	"	9-10	X		-	-	-	-	-	-	-	-	-	77.8
	"	14-15	X		-	-	-	-	-	-	-	-	-	70.1
	"	19-20	X		-	-	-	-	-	-	-	-	-	65.4

(-) Not Analyzed

Table 1
Cimarex Energy Co.
Bonnie 35 Federal Com #4H
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	1/6/2025	0-1'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	88.8
S-2	1/6/2025	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	122
S-3	1/6/2025	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	100
S-4	1/6/2025	0-1'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	116
S-5	1/6/2025	0-1'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	87.9
S-6	1/6/2025	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	87.0
S-7	1/6/2025	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	97.7
Regulatory Criteria^A						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(S) Sample Point

Table 2
Cimarex Energy Co.
Bonnie 35 Federal Com #004H (09.17.2017)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	12/20/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	462
CS-2	12/20/2024	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	346
CS-3	12/20/2024	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	458
CS-4	12/20/2024	2.0	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	533
CS-5	12/20/2024	2.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	459
CS-6	12/20/2024	2.0	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	410
CS-7	12/20/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	501
CS-8	12/20/2024	2.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	539
CS-9	12/20/2024	2.0	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	510
CS-10	12/20/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	316
CS-11	12/20/2024	2.0	840	611	<49.9	1450	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	441
	12/31/2024	2.25	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	239
CS-12	12/20/2024	2.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	477
CS-13	12/20/2024	2.0	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	493
CS-14	12/20/2024	2.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	462
CS-15	12/20/2024	2.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	671
	12/31/2024	2.25	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	211
CS-16	12/20/2024	2.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	686
	12/31/2024	2.25	<50.5	<50.5	<50.5	<50.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	198
CS-17	12/20/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	455
CS-18	12/20/2024	2.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	409
CS-19	12/20/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	770
	12/31/2024	2.25	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	84.4
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

Removed

Table 2
Cimarex Energy Co.
Bonnie 35 Federal Com #004H (09.17.2017)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-20	12/20/2024	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	621
	12/31/2024	2.25	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	113
CS-21	12/20/2024	2.0	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	482
CS-22	12/20/2024	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	328
CS-23	12/20/2024	2.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	772
	12/31/2024	2.25	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	101
CS-24	12/20/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	658
	12/31/2024	2.25	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	85.4
CS-25	12/20/2024	2.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	520
CS-26	12/20/2024	2.0	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	324
CS-27	12/20/2024	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	460
CS-28	12/20/2024	3.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	145
CS-29	12/20/2024	3.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	127
CS-30	12/20/2024	3.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	215
CS-31	12/20/2024	3.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	201
CS-32	12/20/2024	3.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	182
CS-33	12/20/2024	3.5	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	159
CS-34	12/20/2024	3.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	198
CS-35	12/20/2024	3.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	79.5
CS-36	12/20/2024	3.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	112
CS-37	12/20/2024	3.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	148
CS-38	12/20/2024	3.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	99.7
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

Removed

Table 2
Cimarex Energy Co.
Bonnie 35 Federal Com #004H (09.17.2017)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
SW-1	12/20/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	578
SW-2	12/20/2024	2.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	606
	12/31/2024	"	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	243
SW-3	12/20/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	574
SW-4	12/20/2024	2.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	363
SW-5	12/20/2024	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	553
SW-6	12/20/2024	2.0	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	570
SW-7	12/20/2024	3.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	189
SW-8	12/20/2024	3.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	170
SW-9	12/20/2024	3.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	228
SW-10	12/20/2024	3.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	149
Fred Beard Backfill	12/20/2024	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	48.3
Regulatory Criteria^A						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(SW) Sidewall Sample

 Removed

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

Photograph No. 1

Facility: Bonnie 35 Federal Com #004H
(09.17.2017)

County: Eddy County, New Mexico

Description:

View East, area of CS-1 through CS-27.



Photograph No. 2

Facility: Bonnie 35 Federal Com #004H
(09.17.2017)

County: Eddy County, New Mexico

Description:

View West, area of CS-1 through CS-27.



Photograph No. 3

Facility: Bonnie 35 Federal Com #004H
(09.17.2017)

County: Eddy County, New Mexico

Description:

View Northeast, area of CS-1 through CS-27.



PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

Photograph No. 4

Facility: Bonnie 35 Federal Com #004H
(09.17.2017)

County: Eddy County, New Mexico

Description:

View Southeast, area of CS-28 through CS-38.



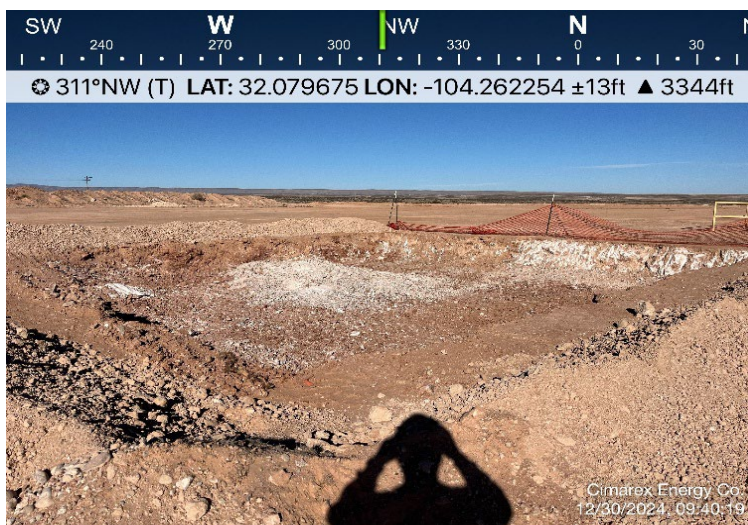
Photograph No. 5

Facility: Bonnie 35 Federal Com #004H
(09.17.2017)

County: Eddy County, New Mexico

Description:

View Northwest, area of CS-28 through CS-38.



Photograph No. 6

Facility: Bonnie 35 Federal Com #004H
(09.17.2017)

County: Eddy County, New Mexico

Description:

View North, area of CS-28 through CS-38.



PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

Photograph No. 7

Facility: Bonnie 35 Federal Com #004H
(09.17.2017)

County: Eddy County, New Mexico

Description:

View South of backfill.



Photograph No. 8

Facility: Bonnie 35 Federal Com #004H
(09.17.2017)

County: Eddy County, New Mexico

Description:

View Northwest of backfill.



Photograph No. 9

Facility: Bonnie 35 Federal Com #004H
(09.17.2017)

County: Eddy County, New Mexico

Description:

View West of backfill.



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
DISTRICT II-ARTESIA O.C.D.
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

MAY 01 2018

Release Notification and Corrective Action

NAB1812231599		OPERATOR		☒ Initial Report	☐ Final Report
Name of Company Cimarex Energy		Contact Christine Alderman			
Address 600 N Marienfeld Ste 600 Midland TX		Telephone No. 432-853-7059			
Facility Name Bonnie 35 Fed 4H		Facility Type production			
Surface Owner BLM		Mineral Owner		API No. 30-015-43619	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	35	25S	26E	330	S	2190	E	Eddy

Latitude 32.04485 Longitude -104.15472

NATURE OF RELEASE

Type of Release produced water /Oil	Volume of Release 4 bbls oil/5 bbls PW	Volume Recovered 0 recovered
Source of Release Valve on well head	Date and Hour of Occurrence 4/17/2018	Date and Hour of Discovery 4/17/2018
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.

Describe Cause of Problem and Remedial Action Taken.

The manual wing valve on the well head failed releasing produced water and oil onto location.

Describe Area Affected and Cleanup Action Taken.

Impact was on location and some pasture area. The impacts will be delineated and a work plan will be developed.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: Christine Alderman		OIL CONSERVATION DIVISION	
Printed Name: Christine Alderman		Signed By: Mike Brannon Approved by Environmental Specialist:	
Title: ESH Supervisor	Approval Date: 5/1/18	Expiration Date: N/A	
E-mail Address: calderman@cimarex.com	Conditions of Approval:	Attached ☒ 2P-4723	
Date: 4.18.2018 Phone: 432-853-7059	See Attached		

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 5/1/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4723 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 6/1/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: Christine Alderman <calderman@cimarex.com>
Sent: Tuesday, May 1, 2018 1:52 PM
To: Tucker, Shelly
Cc: Henryetta Price; Bratcher, Mike, EMNRD
Subject: RE: [External] Re: Bonnie 35 Fed #4 (API 30-015-43619)
Attachments: 20180501120514265.pdf

Shelly,

I am in the field today, but when I get to the office tomorrow I will update you on the status of the sampling from the previous spill. The oversight of reporting this release was not intentional, I had filled out the C-141 but failed to scan and send.

I will be in touch with updates.

Christine
432-853-7059

From: Tucker, Shelly <stucker@blm.gov>
Sent: Tuesday, May 1, 2018 12:45 PM
To: Christine Alderman <calderman@cimarex.com>
Cc: Henryetta Price <hprice@blm.gov>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Subject: Re: [External] Re: Bonnie 35 Fed #4 (API 30-015-43619)

Christine,

We had an inspector on the Bonnie 35 Federal 4H yesterday...

A release was found appearing to have originated from the well head, affecting the location and the surrounding pasture area (about the size of a football field). Vegetation has been adversely impacted with significant death loss.

You have until the **end of the business day today** to get me a release report accompanied with a sundry.

You have 15 days (due date May 15, 2018) to submit a delineation plan/work plan for BLM and NMOCD review.

NOTE: I am showing an old release (09.08.2017) that was reported for this location. 40bbbls of oil down with 20 recovered from a sand separator affecting only the location. You told me that release was going to be sampled in February, 2018. Has this occurred?

NOTE: LPC Timing Stipulations are in effect - from March 1st through June 15th. Please plan remedial activities accordingly. Check for African Rue...treat (before it gets out of control).

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 410204

QUESTIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 410204
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1812231599
Incident Name	NAB1812231599 BONNIE 35 FEDERAL COM #004H @ 30-015-43619
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-43619] BONNIE 35 FEDERAL COM #004H

Location of Release Source	
Site Name	BONNIE 35 FEDERAL COM #004H
Date Release Discovered	04/17/2018
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	7,300
What is the estimated number of samples that will be gathered	40
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/17/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources - 432-813-8988
Please provide any information necessary for navigation to sampling site	Will begin remediation on 12/17/2024 and continue all week and expected to be completed with remediation and confirmation sampling by 12/20/2024.

Sante Fe Main Office
Phone: (505) 476-3441

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Phone: (505) 629-6116

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<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 410204

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 410204
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
lluig	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/10/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 415403

QUESTIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 415403
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1812231599
Incident Name	NAB1812231599 BONNIE 35 FEDERAL COM #004H @ 30-015-43619
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-43619] BONNIE 35 FEDERAL COM #004H

Location of Release Source	
Site Name	BONNIE 35 FEDERAL COM #004H
Date Release Discovered	04/17/2018
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	7,300
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/31/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources - 432-813-8988
Please provide any information necessary for navigation to sampling site	Will be onsite to collect additional composite confirmation samples

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 415403

CONDITIONS		
Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID:	215099
	Action Number:	415403
	Action Type:	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
athielke	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/27/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 416321

QUESTIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 416321
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1812231599
Incident Name	NAB1812231599 BONNIE 35 FEDERAL COM #004H @ 30-015-43619
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-43619] BONNIE 35 FEDERAL COM #004H

Location of Release Source	
Site Name	BONNIE 35 FEDERAL COM #004H
Date Release Discovered	04/17/2018
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	2,000
What is the estimated number of samples that will be gathered	7
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/06/2025
Time sampling will commence	01:00 PM
Please provide any information necessary for observers to contact samplers	432-813-8988 - Carmona Resources
Please provide any information necessary for navigation to sampling site	32.079437, -104.262473 Will be onsite to collect horizontal delineation samples in the pasture to determine if any impact left the location.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 416321

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 416321
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
athielke	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/2/2025

APPENDIX D

CARMONA RESOURCES



Nearest water well

Cimarex Energy Co.

Legend

- 0.50 Mile Radius
- 2.00 Miles
- 2.00 Miles
- 2.11 Miles
- Bonnie 35 Federal Com #004H (04.17.2018)
- USGS Water Well



High Karst

Cimarex Energy Co.

Legend

Bonnie 35 Federal Com #004H (04.17.2018)

High

Medium

Bonnie 35 Federal Com #004H (04.17.2018)

1 mi

N



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320320104145101

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

USGS 320320104145101 26S.26E.12.34120

Eddy County, New Mexico
Latitude 32°03'09.7", Longitude 104°14'56.7" NAD83
Land-surface elevation 3,230.90 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1978-01-25			D 62610		3217.55	NGVD29	1	Z			A
1978-01-25			D 62611		3219.22	NAVD88	1	Z			A
1978-01-25			D 72019	13.35			1	Z			A
1992-11-18			D 62610		3218.87	NGVD29	1	S			A
1992-11-18			D 62611		3220.54	NAVD88	1	S			A
1992-11-18			D 72019	12.03			1	S			A
1998-01-13			D 62610		3215.24	NGVD29	1	S			A
1998-01-13			D 62611		3216.91	NAVD88	1	S			A
1998-01-13			D 72019	15.66			1	S			A
2003-01-28			D 62610		3214.44	NGVD29	1	S	USGS	S	A
2003-01-28			D 62611		3216.11	NAVD88	1	S	USGS	S	A
2003-01-28			D 72019	16.46			1	S	USGS	S	A
2013-01-09	22:10 UTC	m	62610		3213.80	NGVD29	1	S	USGS	S	A
2013-01-09	22:10 UTC	m	62611		3215.47	NAVD88	1	S	USGS	S	A
2013-01-09	22:10 UTC	m	72019	17.10			1	S	USGS	S	A
2018-02-15	22:14 UTC	m	62610		3218.30	NGVD29	1	S	USGS	S	A
2018-02-15	22:14 UTC	m	62611		3219.97	NAVD88	1	S	USGS	S	A
2018-02-15	22:14 UTC	m	72019	12.60			1	S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet

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

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Title: Groundwater for New Mexico: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels/>



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0.33 0.23 nadww02

Date

Time

?

Water-level date-time accuracy

?

Parameter code

Water level, feet below land surface

Water level, feet above specific vertical datum

Referenced vertical datum

?

Status

?

Method of measurement

Measuring agency

Source of measurement

Water-level approval status

Groundwater

New Mexico

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320559104172201

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

USGS 320559104172201 25S.26E.28.423113

Eddy County, New Mexico
Latitude 32°05'59", Longitude 104°17'22" NAD27
Land-surface elevation 3,283 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1983-02-01			D62610		3266.82	NGVD29	1	Z			A
1983-02-01			D62611		3268.50	NAVD88	1	Z			A
1983-02-01			D72019	14.50			1	Z			A
1987-10-08			D62610		3268.06	NGVD29	1	Z			A
1987-10-08			D62611		3269.74	NAVD88	1	Z			A
1987-10-08			D72019	13.26			1	Z			A
1992-11-19			D62610		3267.10	NGVD29	P	S			A
1992-11-19			D62611		3268.78	NAVD88	P	S			A
1992-11-19			D72019	14.22			P	S			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Metho measi
------	------	---	------------------------	---	---	---------------------------------	-------------	---------------------

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Title: Groundwater for New Mexico: Water Levels
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0.33 0.24 nadww02



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Groundwater

Geographic Area:
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Groundwater levels for New Mexico

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320616104142801

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

USGS 320616104142801 25S.26E.25.23231

Eddy County, New Mexico
Latitude 32°06'12.6", Longitude 104°14'33.9" NAD83
Land-surface elevation 3,188.60 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1978-01-25			D 62610		3184.39	NGVD29	1	Z			A
1978-01-25			D 62611		3186.05	NAVD88	1	Z			A
1978-01-25			D 72019	4.21			1	Z			A
1983-02-01			D 62610		3185.96	NGVD29	1	Z			A
1983-02-01			D 62611		3187.62	NAVD88	1	Z			A
1983-02-01			D 72019	2.64			1	Z			A
1987-10-08			D 62610		3185.63	NGVD29	1	Z			A
1987-10-08			D 62611		3187.29	NAVD88	1	Z			A
1987-10-08			D 72019	2.97			1	Z			A
1992-11-04			D 62610		3186.55	NGVD29	1	S			A
1992-11-04			D 62611		3188.21	NAVD88	1	S			A
1992-11-04			D 72019	2.05			1	S			A
1998-01-07			D 62610		3186.62	NGVD29	1	S			A
1998-01-07			D 62611		3188.28	NAVD88	1	S			A
1998-01-07			D 72019	1.98			1	S			A
2003-01-28			D 62610		3181.38	NGVD29	1	S	USGS	S	A
2003-01-28			D 62611		3183.04	NAVD88	1	S	USGS	S	A
2003-01-28			D 72019	7.22			1	S	USGS	S	A
2013-01-09 22:45 UTC		m	62610		3177.78	NGVD29	1	S	USGS	S	A
2013-01-09 22:45 UTC		m	62611		3179.44	NAVD88	1	S	USGS	S	A
2013-01-09 22:45 UTC		m	72019	10.82			1	S	USGS	S	A
2018-02-13 22:15 UTC		m	62610		3174.64	NGVD29	1	S	USGS	S	A
2018-02-13 22:15 UTC		m	62611		3176.30	NAVD88	1	S	USGS	S	A
2018-02-13 22:15 UTC		m	72019	13.96			1	S	USGS	S	A

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

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0.35 0.23 nadww02

Water Well Data
Average Depth to Groundwater (ft)
Bonnie 35 Federal #4
Eddy County, New Mexico

24 South			25 East		
6	5 14	4 440	3	2	1
7	209	44	10	11	12
18	17	16	15	14	13 7
19	20	21	22	23	24 163
30	29	28	27	26	25 540
31	32	33	34	35	36 57
			150	500	

24 South			26 East		
6 63	5	4	3	2	1
7 250	8 450	9	10	11	12
18	17	16	15	14 30	13
650				23 38	24 28
19	20	21	22	37	30
30	29 46	28	27 30	26	25
70	32 111	33	34	35	36
	109				

24 South			27 East		
6	5	4	3	2	1
7	8 17	9	10	11	12
18	30	17	16	15	14 30
34					31
19	20	21	22 70	23	24
30	29	28	27	26	25
31	32	33	34	35	36

25 South			25 East		
6	5 30	4 46	3	2	1
7	8	9	10	11	12
18	17	16	15	14 43	13 39
19	20	21	22	23	24 70
30	29	28	27	26	25
31	32	33	34	35	36

25 South			26 East		
6 125	5	4	3 45	2	1
7 60	8	9 45	10	11	12
60		45			
18	17	16	15	14	13
19	20	21	22 118	23	24
30	29	28 14	27 13	26 10	25
31	32	33	34	35	36
				SITE	

25 South			27 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13 92
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33 19	34	35	36

26 South			25 East		
6	5	4	3	2	1
7	8	9	10	11	12 150
18	17	16	15	14	13
10	29	6			
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

26 South			26 East		
6	5	4	3	2	1
7	8 22	9	10	11	12 12
18	17	16	15	14	13
19	20	21	22 31	23	24
30	29	28	27	26	25
31	32	33	34	35	36

26 South			27 East		
6	5 12	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13 35
19	20	21	22 50	23	24
30	29	28	27	26	25
31	32	33	34	35	36

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)

Geology and Groundwater Resources of Eddy County, NM (Report 3)

34 NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location



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site_no list =

- 320625104153201

Minimum number of levels = 1

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USGS 320625104153201 25S.26E.26.213213

Available data for this site

Groundwater: Field measurements

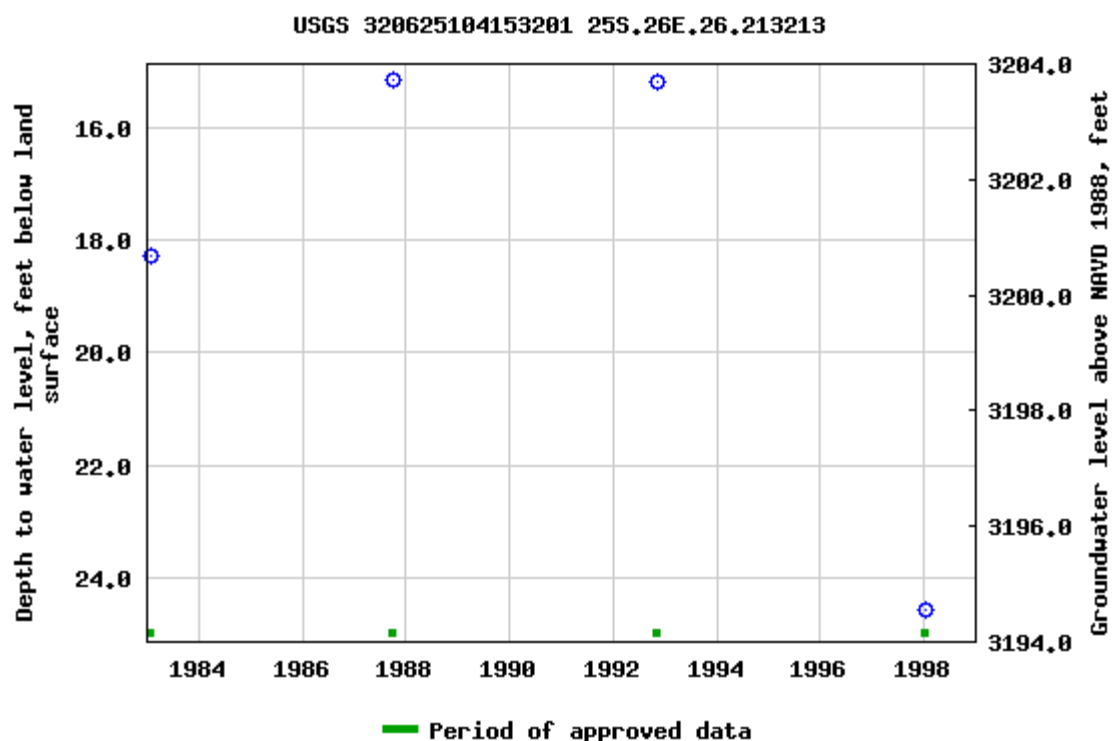
▼

GO

Eddy County, New Mexico
Hydrologic Unit Code --
Latitude 32°06'25", Longitude 104°15'32" NAD27
Land-surface elevation 3,219 feet above NAVD88
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.

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Page Last Modified: 2018-12-13 11:24:35 EST

1.15 1.01 nadww01



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 smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 01013		C	ED			SE	25	25S	26E	571505.0	3551456.0 *		2810	245		
C 02220		CUB	ED	SW	NW	NE	26	25S	26E	569598.0	3552352.0 *		2876	35		
C 02221		CUB	ED	SE	SW	NE	25	25S	26E	571412.0	3551961.0 *		3128	35		
C 02438		CUB	ED	SE	NE	SW	12	26S	26E	571015.0	3546705.0 *		3154	30		
C 04329 POD1		C	ED	NE	NE	NE	27	25S	26E	568576.6	3552567.2		3227	57	14	43
C 03655 POD3		CUB	ED	NW	SE	SE	22	25S	26E	568458.2	3553019.0		3694			
C 02439		CUB	ED	NE	SE	NE	15	26S	26E	568614.0	3545697.0 *		3884	30		

Average Depth to Water: 14 feet

Minimum Depth: 14 feet

Maximum Depth: 14 feet

Record Count: 7

UTM Filters (in meters):

Easting: 569509.05

Northing: 3549477.24

Radius: 4000

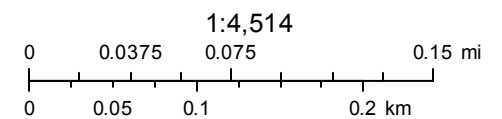
* UTM location was derived from PLSS - see Help

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

New Mexico NFHL Data



December 13, 2018



FEMA
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,

APPENDIX E

CARMONA RESOURCES





Certificate of Analysis Summary 599932

Tetra Tech- Midland, Midland, TX

Project Name: Cimarex- Bonnie 35 Fed #4



Project Id: 212C-MD-00990 Task 03
Contact: Clair Gonzales
Project Location: Eddy CO. NM

Date Received in Lab: Fri Sep-21-18 01:15 pm
Report Date: 28-SEP-18
Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	599932-001	599932-002	599932-003	599932-004	599932-005	599932-006
	<i>Field Id:</i>	AH #1 (0-1')	AH #2 (0-1')	AH #3 (0-1')	AH #3 (1-1.5')	AH #4 (0-1')	AH #4 (1-1.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-20-18 00:00	Sep-20-18 00:00	Sep-20-18 00:00	Sep-20-18 00:00	Sep-20-18 00:00	Sep-20-18 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	Sep-24-18 09:00	Sep-24-18 09:00	Sep-24-18 09:00	Sep-24-18 09:00	Sep-24-18 09:00	Sep-24-18 09:00
	<i>Analyzed:</i>	Sep-24-18 14:23	Sep-24-18 16:05	Sep-24-18 16:25	Sep-24-18 16:45	Sep-24-18 17:06	Sep-24-18 17:26
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Toluene		<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Ethylbenzene		<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
m,p-Xylenes		<0.00399 0.00399	<0.00397 0.00397	<0.00403 0.00403	<0.00401 0.00401	<0.00398 0.00398	<0.00398 0.00398
o-Xylene		<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Total Xylenes		<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Total BTEX		<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	Sep-26-18 09:00	Sep-26-18 09:00	Sep-26-18 09:00	Sep-26-18 16:00	Sep-26-18 16:00	Sep-26-18 16:00
	<i>Analyzed:</i>	Sep-26-18 13:24	Sep-26-18 14:50	Sep-26-18 13:36	Sep-26-18 16:39	Sep-26-18 16:55	Sep-26-18 17:00
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2470 100	158 4.98	2310 99.4	1650 63.2	3470 127	1240 63.2
TPH By SW8015 Mod	<i>Extracted:</i>	Sep-21-18 16:00	Sep-21-18 16:00	Sep-21-18 16:00	Sep-21-18 16:00	Sep-21-18 16:00	Sep-21-18 16:00
	<i>Analyzed:</i>	Sep-23-18 00:57	Sep-23-18 01:16	Sep-24-18 11:30	Sep-23-18 01:53	Sep-23-18 02:12	Sep-23-18 02:31
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<14.9 14.9	<14.9 14.9	<14.9 14.9	<15.0 15.0
Diesel Range Organics (DRO)		222 15.0	17.7 15.0	<14.9 14.9	<14.9 14.9	<14.9 14.9	<15.0 15.0
Motor Oil Range Hydrocarbons (MRO)		39.7 15.0	<15.0 15.0	<14.9 14.9	<14.9 14.9	<14.9 14.9	<15.0 15.0
Total TPH		262 15.0	17.7 15.0	<14.9 14.9	<14.9 14.9	<14.9 14.9	<15.0 15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
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Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks
Project Manager



Certificate of Analysis Summary 599932

Tetra Tech- Midland, Midland, TX

Project Name: Cimarex- Bonnie 35 Fed #4



Project Id: 212C-MD-00990 Task 03
Contact: Clair Gonzales
Project Location: Eddy CO. NM

Date Received in Lab: Fri Sep-21-18 01:15 pm
Report Date: 28-SEP-18
Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	599932-007	599932-008	599932-009	599932-010		
	<i>Field Id:</i>	AH #5 (0-1')	AH #6 (0-1')	AH #7 (0-1')	AH #8 (0-6')		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Sep-20-18 00:00	Sep-20-18 00:00	Sep-20-18 00:00	Sep-20-18 00:00		
BTEX by EPA 8021B	<i>Extracted:</i>	Sep-24-18 09:00	Sep-24-18 09:00	Sep-24-18 09:00	Sep-24-18 09:00		
	<i>Analyzed:</i>	Sep-24-18 18:45	Sep-24-18 19:05	Sep-24-18 19:26	Sep-24-18 19:46		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201		
Toluene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201		
Ethylbenzene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201		
m,p-Xylenes		<0.00404 0.00404	<0.00399 0.00399	<0.00401 0.00401	<0.00402 0.00402		
o-Xylene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201		
Total Xylenes		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201		
Total BTEX		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201		
Chloride by EPA 300	<i>Extracted:</i>	Sep-26-18 16:00	Sep-26-18 16:00	Sep-26-18 16:00	Sep-26-18 16:00		
	<i>Analyzed:</i>	Sep-26-18 17:06	Sep-27-18 13:50	Sep-27-18 13:56	Sep-27-18 14:02		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		297 63.4	116 6.30	90.9 6.36	145 6.36		
TPH By SW8015 Mod	<i>Extracted:</i>	Sep-21-18 16:00	Sep-21-18 16:00	Sep-21-18 16:00	Sep-21-18 16:00		
	<i>Analyzed:</i>	Sep-23-18 02:49	Sep-23-18 03:08	Sep-23-18 03:27	Sep-23-18 03:45		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0		
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0		
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0		
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
 The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
 XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
 Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks
Project Manager

Analytical Report 599932

for
Tetra Tech- Midland

Project Manager: Clair Gonzales

Cimarex- Bonnie 35 Fed #4

212C-MD-00990 Task 03

28-SEP-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



28-SEP-18

Project Manager: **Clair Gonzales**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **599932**

Cimarex- Bonnie 35 Fed #4

Project Address: Eddy CO. NM

Clair Gonzales:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 599932. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 599932 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink, appearing to read 'Kelsey Brooks', written over a horizontal line.

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 599932****Tetra Tech- Midland, Midland, TX**

Cimarex- Bonnie 35 Fed #4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH #1 (0-1')	S	09-20-18 00:00		599932-001
AH #2 (0-1')	S	09-20-18 00:00		599932-002
AH #3 (0-1')	S	09-20-18 00:00		599932-003
AH #3 (1-1.5')	S	09-20-18 00:00		599932-004
AH #4 (0-1')	S	09-20-18 00:00		599932-005
AH #4 (1-1.5')	S	09-20-18 00:00		599932-006
AH #5 (0-1')	S	09-20-18 00:00		599932-007
AH #6 (0-1')	S	09-20-18 00:00		599932-008
AH #7 (0-1')	S	09-20-18 00:00		599932-009
AH #8 (0-6')	S	09-20-18 00:00		599932-010

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: Cimarex- Bonnie 35 Fed #4**

Project ID: 212C-MD-00990 Task 03
Work Order Number(s): 599932

Report Date: 28-SEP-18
Date Received: 09/21/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3064388 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Lab Sample ID 599932-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 599932-001, -002, -003, -004, -005, -006, -007, -008, -009, -010.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analytical Results 599932



Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #1 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-001

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 09.00

Basis: Wet Weight

Seq Number: 3064476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2470	100	mg/kg	09.26.18 13.24		20

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.23.18 00.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	222	15.0	mg/kg	09.23.18 00.57		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	39.7	15.0	mg/kg	09.23.18 00.57		1
Total TPH	PHC635	262	15.0	mg/kg	09.23.18 00.57		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	108	%	70-135	09.23.18 00.57		
o-Terphenyl	84-15-1	112	%	70-135	09.23.18 00.57		



Certificate of Analytical Results 599932



Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #1 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-001

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.18 14.23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.18 14.23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.18 14.23	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.24.18 14.23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.18 14.23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.18 14.23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.18 14.23	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.24.18 14.23		
4-Bromofluorobenzene	460-00-4	89	%	70-130	09.24.18 14.23		



Certificate of Analytical Results 599932



Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #2 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-002

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 09.00

Basis: Wet Weight

Seq Number: 3064476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	158	4.98	mg/kg	09.26.18 14.50		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.23.18 01.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	17.7	15.0	mg/kg	09.23.18 01.16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.23.18 01.16	U	1
Total TPH	PHC635	17.7	15.0	mg/kg	09.23.18 01.16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	09.23.18 01.16	
o-Terphenyl	84-15-1	97	%	70-135	09.23.18 01.16	



Certificate of Analytical Results 599932



Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #2 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-002

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.24.18 16.05	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.24.18 16.05	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.24.18 16.05	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.24.18 16.05	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.24.18 16.05	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.24.18 16.05	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.24.18 16.05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.24.18 16.05		
4-Bromofluorobenzene	460-00-4	101	%	70-130	09.24.18 16.05		



Certificate of Analytical Results 599932



Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #3 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-003

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 09.00

Basis: Wet Weight

Seq Number: 3064476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2310	99.4	mg/kg	09.26.18 13.36		20

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	09.24.18 11.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	09.24.18 11.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	09.24.18 11.30	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	09.24.18 11.30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	82	%	70-135	09.24.18 11.30		
o-Terphenyl	84-15-1	83	%	70-135	09.24.18 11.30		



Certificate of Analytical Results 599932



Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #3 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-003

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.24.18 16.25	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.24.18 16.25	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.24.18 16.25	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.24.18 16.25	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.24.18 16.25	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.24.18 16.25	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.24.18 16.25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	09.24.18 16.25		
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.24.18 16.25		



Certificate of Analytical Results 599932



Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #3 (1-1.5')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-004

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 16.00

Basis: Wet Weight

Seq Number: 3064546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1650	63.2	mg/kg	09.26.18 16.39		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	09.23.18 01.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	09.23.18 01.53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	09.23.18 01.53	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	09.23.18 01.53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	91	%	70-135	09.23.18 01.53		
o-Terphenyl	84-15-1	94	%	70-135	09.23.18 01.53		



Certificate of Analytical Results 599932



Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #3 (1-1.5')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-004

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.18 16.45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.18 16.45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.18 16.45	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.24.18 16.45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.18 16.45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.18 16.45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.18 16.45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	96	%	70-130	09.24.18 16.45		
4-Bromofluorobenzene	460-00-4	106	%	70-130	09.24.18 16.45		



Certificate of Analytical Results 599932



Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #4 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-005

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 16.00

Basis: Wet Weight

Seq Number: 3064546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3470	127	mg/kg	09.26.18 16.55		20

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	09.23.18 02.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	09.23.18 02.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	09.23.18 02.12	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	09.23.18 02.12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	91	%	70-135	09.23.18 02.12		
o-Terphenyl	84-15-1	92	%	70-135	09.23.18 02.12		



Certificate of Analytical Results 599932



Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #4 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-005

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.18 17.06	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.18 17.06	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.18 17.06	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.18 17.06	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.18 17.06	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.18 17.06	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.18 17.06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	70-130	09.24.18 17.06		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.24.18 17.06		



Certificate of Analytical Results 599932



Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #4 (1-1.5')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-006

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 16.00

Basis: Wet Weight

Seq Number: 3064546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1240	63.2	mg/kg	09.26.18 17.00		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.23.18 02.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.23.18 02.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.23.18 02.31	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.23.18 02.31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	87	%	70-135	09.23.18 02.31		
o-Terphenyl	84-15-1	85	%	70-135	09.23.18 02.31		



Certificate of Analytical Results 599932



Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #4 (1-1.5')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-006

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.18 17.26	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.18 17.26	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.18 17.26	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.18 17.26	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.18 17.26	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.18 17.26	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.18 17.26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	09.24.18 17.26		
1,4-Difluorobenzene	540-36-3	103	%	70-130	09.24.18 17.26		



Certificate of Analytical Results 599932



Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: AH #5 (0-1')

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-007

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 16.00

Basis: Wet Weight

Seq Number: 3064546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	297	63.4	mg/kg	09.26.18 17.06		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.23.18 02.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.23.18 02.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.23.18 02.49	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.23.18 02.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	09.23.18 02.49	
o-Terphenyl	84-15-1	96	%	70-135	09.23.18 02.49	



Certificate of Analytical Results 599932



Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #5 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-007

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.24.18 18.45	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.24.18 18.45	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.24.18 18.45	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	09.24.18 18.45	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.24.18 18.45	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.24.18 18.45	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.24.18 18.45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.24.18 18.45		
4-Bromofluorobenzene	460-00-4	95	%	70-130	09.24.18 18.45		



Certificate of Analytical Results 599932



Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #6 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-008

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 16.00

Basis: Wet Weight

Seq Number: 3064546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	116	6.30	mg/kg	09.27.18 13.50		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.23.18 03.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.23.18 03.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.23.18 03.08	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.23.18 03.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	09.23.18 03.08	
o-Terphenyl	84-15-1	92	%	70-135	09.23.18 03.08	



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #6 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-008

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.18 19.05	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.18 19.05	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.18 19.05	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.24.18 19.05	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.18 19.05	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.18 19.05	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.18 19.05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	09.24.18 19.05		
1,4-Difluorobenzene	540-36-3	93	%	70-130	09.24.18 19.05		



Certificate of Analytical Results 599932



Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #7 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-009

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 16.00

Basis: Wet Weight

Seq Number: 3064546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	90.9	6.36	mg/kg	09.27.18 13.56		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.23.18 03.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.23.18 03.27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.23.18 03.27	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.23.18 03.27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	103	%	70-135	09.23.18 03.27		
o-Terphenyl	84-15-1	103	%	70-135	09.23.18 03.27		



Certificate of Analytical Results 599932



Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #7 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-009

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.18 19.26	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.18 19.26	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.18 19.26	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.24.18 19.26	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.18 19.26	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.18 19.26	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.18 19.26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	09.24.18 19.26		
1,4-Difluorobenzene	540-36-3	104	%	70-130	09.24.18 19.26		



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #8 (0-6')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-010

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 16.00

Basis: Wet Weight

Seq Number: 3064546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	145	6.36	mg/kg	09.27.18 14.02		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.23.18 03.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.23.18 03.45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.23.18 03.45	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.23.18 03.45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	102	%	70-135	09.23.18 03.45		
o-Terphenyl	84-15-1	103	%	70-135	09.23.18 03.45		



Certificate of Analytical Results 599932



Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #8 (0-6')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-010

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.24.18 19.46	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.24.18 19.46	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.24.18 19.46	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.24.18 19.46	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.24.18 19.46	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.24.18 19.46	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.24.18 19.46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.24.18 19.46		
1,4-Difluorobenzene	540-36-3	95	%	70-130	09.24.18 19.46		



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Tetra Tech- Midland
Cimarex- Bonnie 35 Fed #4

Analytical Method: Chloride by EPA 300

Seq Number: 3064476

MB Sample Id: 7663020-1-BLK

Matrix: Solid

LCS Sample Id: 7663020-1-BKS

Prep Method: E300P

Date Prep: 09.26.18

LCSD Sample Id: 7663020-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	251	100	252	101	90-110	0	20	mg/kg	09.26.18 11:05	

Analytical Method: Chloride by EPA 300

Seq Number: 3064546

MB Sample Id: 7663046-1-BLK

Matrix: Solid

LCS Sample Id: 7663046-1-BKS

Prep Method: E300P

Date Prep: 09.26.18

LCSD Sample Id: 7663046-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	251	100	256	102	90-110	2	20	mg/kg	09.26.18 16:10	

Analytical Method: Chloride by EPA 300

Seq Number: 3064476

Parent Sample Id: 600016-013

Matrix: Soil

MS Sample Id: 600016-013 S

Prep Method: E300P

Date Prep: 09.26.18

MSD Sample Id: 600016-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	28.7	248	283	103	283	103	90-110	0	20	mg/kg	09.26.18 11:31	

Analytical Method: Chloride by EPA 300

Seq Number: 3064476

Parent Sample Id: 600018-013

Matrix: Soil

MS Sample Id: 600018-013 S

Prep Method: E300P

Date Prep: 09.26.18

MSD Sample Id: 600018-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	51.1	250	297	98	301	100	90-110	1	20	mg/kg	09.26.18 12:50	

Analytical Method: Chloride by EPA 300

Seq Number: 3064546

Parent Sample Id: 600111-002

Matrix: Soil

MS Sample Id: 600111-002 S

Prep Method: E300P

Date Prep: 09.26.18

MSD Sample Id: 600111-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	772	317	1060	91	1060	91	90-110	0	20	mg/kg	09.26.18 16:27	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Tetra Tech- Midland
Cimarex- Bonnie 35 Fed #4

Analytical Method: Chloride by EPA 300

Seq Number: 3064546

Parent Sample Id: 600267-002

Matrix: Soil

MS Sample Id: 600267-002 S

Prep Method: E300P

Date Prep: 09.26.18

MSD Sample Id: 600267-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	83.3	317	435	111	434	111	90-110	0	20	mg/kg	09.26.18 17:57	X

Analytical Method: TPH By SW8015 Mod

Seq Number: 3064217

MB Sample Id: 7662837-1-BLK

Matrix: Solid

LCS Sample Id: 7662837-1-BKS

Prep Method: TX1005P

Date Prep: 09.21.18

LCSD Sample Id: 7662837-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	954	95	1020	102	70-135	7	20	mg/kg	09.22.18 19:59	
Diesel Range Organics (DRO)	<8.13	1000	996	100	1060	106	70-135	6	20	mg/kg	09.22.18 19:59	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	99		120		127		70-135	%	09.22.18 19:59
o-Terphenyl	103		124		119		70-135	%	09.22.18 19:59

Analytical Method: TPH By SW8015 Mod

Seq Number: 3064217

Parent Sample Id: 599886-001

Matrix: Soil

MS Sample Id: 599886-001 S

Prep Method: TX1005P

Date Prep: 09.21.18

MSD Sample Id: 599886-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<7.99	999	866	87	875	88	70-135	1	20	mg/kg	09.22.18 20:55	
Diesel Range Organics (DRO)	21.5	999	896	88	920	90	70-135	3	20	mg/kg	09.22.18 20:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	124		127		70-135	%	09.22.18 20:55
o-Terphenyl	121		123		70-135	%	09.22.18 20:55

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = $\text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Tetra Tech- Midland
Cimarex- Bonnie 35 Fed #4

Analytical Method: BTEX by EPA 8021B

Seq Number: 3064388

MB Sample Id: 7662979-1-BLK

Matrix: Solid

LCS Sample Id: 7662979-1-BKS

Prep Method: SW5030B

Date Prep: 09.24.18

LCSD Sample Id: 7662979-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.116	116	0.111	111	70-130	4	35	mg/kg	09.24.18 12:22	
Toluene	<0.00199	0.0996	0.109	109	0.105	105	70-130	4	35	mg/kg	09.24.18 12:22	
Ethylbenzene	<0.00199	0.0996	0.107	107	0.102	102	70-130	5	35	mg/kg	09.24.18 12:22	
m,p-Xylenes	<0.00398	0.199	0.212	107	0.202	101	70-130	5	35	mg/kg	09.24.18 12:22	
o-Xylene	<0.00199	0.0996	0.0967	97	0.0943	94	70-130	3	35	mg/kg	09.24.18 12:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		95		70-130	%	09.24.18 12:22
4-Bromofluorobenzene	99		114		83		70-130	%	09.24.18 12:22

Analytical Method: BTEX by EPA 8021B

Seq Number: 3064388

Parent Sample Id: 599932-001

Matrix: Soil

MS Sample Id: 599932-001 S

Prep Method: SW5030B

Date Prep: 09.24.18

MSD Sample Id: 599932-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0604	61	0.0659	66	70-130	9	35	mg/kg	09.24.18 13:03	X
Toluene	<0.00200	0.0998	0.0517	52	0.0619	62	70-130	18	35	mg/kg	09.24.18 13:03	X
Ethylbenzene	<0.00200	0.0998	0.0429	43	0.0513	51	70-130	18	35	mg/kg	09.24.18 13:03	X
m,p-Xylenes	<0.00399	0.200	0.0838	42	0.102	51	70-130	20	35	mg/kg	09.24.18 13:03	X
o-Xylene	<0.00200	0.0998	0.0411	41	0.0491	49	70-130	18	35	mg/kg	09.24.18 13:03	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		87		70-130	%	09.24.18 13:03
4-Bromofluorobenzene	90		92		70-130	%	09.24.18 13:03

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste 401
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:

Cimarex

Site Manager:

Clair Gonzales

Project Name:

Bonnie 35 Fed #4

Project Location:
(county, state)

Eddy CO. NM

Project #:

212C-MD-00990 Task 03

Invoice to:

Cimarex Attn: Christine Alderman

Receiving Laboratory:

Xerco

Sampler Signature:

Conner Moehring

Comments:

SAMPLE IDENTIFICATION

LAB #
(LAB USE ONLY)

SAMPLING

YEAR: 2018

DATE
TIME

MATRIX

PRESERVATIVE METHOD

WATER
SOIL
HCL
HNO₃
ICE
None

CONTAINERS
FILTERED (Y/N)

AH #1 (0-1')	9/20/2018		X							1	N
AH #2 (0-1')	9/20/2018		X							1	N
AH #3 (0-1')	9/20/2018		X							1	N
AH #3 (1-1.5')	9/20/2018		X							1	N
AH #4 (0-1')	9/20/2018		X							1	N
AH #4 (1-1.5')	9/20/2018		X							1	N
AH #5 (0-1')	9/20/2018		X							1	N
AH #6 (0-1')	9/20/2018		X							1	N
AH #7 (0-1')	9/20/2018		X							1	N
AH #8 (0-6')	9/20/2018		X							1	N

Relinquished by:

Date: Time:

Bonnie Mactub

9/21/18

Received by:

Date: Time:

Clair Gonzales

9/21/18 1305

Relinquished by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

ANALYSIS REQUEST
(Circle or Specify Method No.)

☒ BTEX 8021B	☐ BTEX 8260B
☐ TPH TX1005 (Ext to C35)	
☐ TPH 8015M (GRO - DRO - ORO - MRO)	
☐ PAH 8270C	
☐ Total Metals Ag As Ba Cd Cr Pb Se Hg	
☐ TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
☐ TCLP Volatiles	
☐ TCLP Semi Volatiles	
☐ RCI	
☐ GC/MS Vol. 8260B / 624	
☐ GC/MS Semi. Vol. 8270C/625	
☐ PCB's 8082 / 608	
☐ NORM	
☐ PLM (Asbestos)	
☐ Chloride	
☐ Chloride Sulfate TDS	
☐ General Water Chemistry (see attached list)	
☐ Anion/Cation Balance	

LAB USE ONLY

REMARKS:
☒ STANDARD

Sample Temperature

0-21°C

- ☐ RUSH: Same Day 24 hr. 48 hr. 72 hr.
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 09/21/2018 01:15:00 PM

Work Order #: 599932

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist**Comments**

#1 *Temperature of cooler(s)?	.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Shawnee Gomez

Date: 09/21/2018

Checklist reviewed by:

Kelsey Brooks

Date: 09/25/2018



Certificate of Analysis Summary 607198

Tetra Tech- Midland, Midland, TX

Project Name: Cimarex Bonnie 35 Federal #4

Project Id: 212C-MD-00990.03
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Mon Dec-03-18 11:10 am
Report Date: 12-DEC-18
Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	607198-001	607198-002	607198-003	607198-004	607198-008	607198-009
	<i>Field Id:</i>	BH #1 (0'-1')	BH #1 (2'-3')	BH #1 (4'-5')	BH #1 (6'-7')	BH #2 (0'-1')	BH #2 (2'-3')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	Dec-07-18 15:00	Dec-07-18 15:00			Dec-07-18 15:00	Dec-07-18 15:00
	<i>Analyzed:</i>	Dec-08-18 14:57	Dec-08-18 15:16			Dec-08-18 15:35	Dec-08-18 16:49
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL			mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00201 0.00201			<0.00199 0.00199	<0.00201 0.00201
Toluene		<0.00200 0.00200	<0.00201 0.00201			<0.00199 0.00199	<0.00201 0.00201
Ethylbenzene		<0.00200 0.00200	<0.00201 0.00201			<0.00199 0.00199	<0.00201 0.00201
m,p-Xylenes		<0.00399 0.00399	<0.00402 0.00402			<0.00398 0.00398	<0.00402 0.00402
o-Xylene		<0.00200 0.00200	<0.00201 0.00201			<0.00199 0.00199	<0.00201 0.00201
Total Xylenes		<0.00200 0.00200	<0.00201 0.00201			<0.00199 0.00199	<0.00201 0.00201
Total BTEX		<0.00200 0.00200	<0.00201 0.00201			<0.00199 0.00199	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	Dec-04-18 16:00	Dec-04-18 16:00	Dec-05-18 11:00	Dec-05-18 11:00	Dec-04-18 16:00	Dec-04-18 16:00
	<i>Analyzed:</i>	Dec-05-18 00:56	Dec-05-18 01:03	Dec-05-18 15:37	Dec-05-18 15:43	Dec-05-18 01:09	Dec-05-18 01:15
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1080 49.9	1390 49.7	335 50.0	287 50.0	3180 49.5	478 49.9
TPH By SW8015 Mod	<i>Extracted:</i>	Dec-03-18 14:00	Dec-03-18 14:00			Dec-03-18 14:00	Dec-03-18 14:00
	<i>Analyzed:</i>	Dec-03-18 17:36	Dec-03-18 17:55			Dec-03-18 18:14	Dec-03-18 18:33
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL			mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0			<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		141 15.0	28.2 15.0			<15.0 15.0	<15.0 15.0
Motor Oil Range Hydrocarbons (MRO)		39.5 15.0	<15.0 15.0			<15.0 15.0	<15.0 15.0
Total TPH		181 15.0	28.2 15.0			<15.0 15.0	<15.0 15.0

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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Kelsey Brooks
Project Manager



Certificate of Analysis Summary 607198

Tetra Tech- Midland, Midland, TX

Project Name: Cimarex Bonnie 35 Federal #4



Project Id: 212C-MD-00990.03
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Mon Dec-03-18 11:10 am
Report Date: 12-DEC-18
Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	607198-010	607198-011	607198-015	607198-016	607198-017	607198-018
	Field Id:	BH #2 (4'-5')	BH #2 (6'-7')	BH #3 (0-1')	BH #3 (2'-3')	BH #3 (4'-5")	BH #3 (6'-7')
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00
BTEX by EPA 8021B	Extracted:			Dec-07-18 15:30	Dec-07-18 15:30		
	Analyzed:			Dec-07-18 19:41	Dec-07-18 20:03		
	Units/RL:			mg/kg RL	mg/kg RL		
Benzene				<0.00200 0.00200	<0.00199 0.00199		
Toluene				<0.00200 0.00200	<0.00199 0.00199		
Ethylbenzene				<0.00200 0.00200	<0.00199 0.00199		
m,p-Xylenes				<0.00401 0.00401	<0.00398 0.00398		
o-Xylene				<0.00200 0.00200	<0.00199 0.00199		
Total Xylenes				<0.00200 0.00200	<0.00199 0.00199		
Total BTEX				<0.00200 0.00200	<0.00199 0.00199		
Chloride by EPA 300	Extracted:	Dec-05-18 11:00	Dec-05-18 11:00	Dec-04-18 16:00	Dec-04-18 16:00	Dec-05-18 11:00	Dec-05-18 11:00
	Analyzed:	Dec-06-18 12:12	Dec-06-18 12:18	Dec-05-18 01:34	Dec-11-18 11:58	Dec-06-18 12:25	Dec-06-18 12:31
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		40.7 5.00	<5.03 5.03	531 49.5	27.1 4.95	15.7 4.96	16.1 4.95
TPH By SW8015 Mod	Extracted:			Dec-03-18 14:00	Dec-03-18 14:00		
	Analyzed:			Dec-03-18 18:52	Dec-03-18 19:11		
	Units/RL:			mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)				<14.9 14.9	<14.9 14.9		
Diesel Range Organics (DRO)				<14.9 14.9	<14.9 14.9		
Motor Oil Range Hydrocarbons (MRO)				<14.9 14.9	<14.9 14.9		
Total TPH				<14.9 14.9	<14.9 14.9		

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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Kelsey Brooks
Project Manager



Certificate of Analysis Summary 607198

Tetra Tech- Midland, Midland, TX

Project Name: Cimarex Bonnie 35 Federal #4



Project Id: 212C-MD-00990.03
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Mon Dec-03-18 11:10 am
Report Date: 12-DEC-18
Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	607198-022	607198-023	607198-024	607198-025	607198-026	607198-027
	<i>Field Id:</i>	Background (0'-1')	Background (2'-3')	Background (4'-5')	Background (6'-7')	Background (9'-10')	Background (14'-15')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00
Chloride by EPA 300	<i>Extracted:</i>	Dec-04-18 16:00	Dec-04-18 16:00	Dec-05-18 11:00	Dec-05-18 11:00	Dec-05-18 11:00	Dec-11-18 12:00
	<i>Analyzed:</i>	Dec-05-18 09:23	Dec-11-18 12:04	Dec-06-18 12:37	Dec-05-18 16:51	Dec-11-18 12:10	Dec-11-18 13:49
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<4.95 4.95	<4.99 4.99	28.4 4.96	111 49.6	77.8 4.97	70.1 4.95

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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Kelsey Brooks
Project Manager



Certificate of Analysis Summary 607198

Tetra Tech- Midland, Midland, TX

Project Name: Cimarex Bonnie 35 Federal #4



Project Id: 212C-MD-00990.03
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Mon Dec-03-18 11:10 am
Report Date: 12-DEC-18
Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	607198-028					
	Field Id:	Background (19'-20')					
	Depth:						
	Matrix:	SOIL					
Chloride by EPA 300	Sampled:	Nov-30-18 00:00					
	Extracted:	Dec-05-18 17:05					
	Analyzed:	Dec-11-18 12:16					
	Units/RL:	mg/kg RL					
Chloride		65.4 4.98					

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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Kelsey Brooks
Project Manager

Analytical Report 607198

for
Tetra Tech- Midland

Project Manager: Clair Gonzales

Cimarex Bonnie 35 Federal #4

212C-MD-00990.03

12-DEC-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



12-DEC-18

Project Manager: **Clair Gonzales**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **607198**

Cimarex Bonnie 35 Federal #4

Project Address: Eddy County, New Mexico

Clair Gonzales:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 607198. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 607198 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink, appearing to read 'Kelsey Brooks', written over a horizontal line.

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 607198

Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH #1 (0-1')	S	11-30-18 00:00		607198-001
BH #1 (2'-3')	S	11-30-18 00:00		607198-002
BH #1 (4'-5')	S	11-30-18 00:00		607198-003
BH #1 (6'-7')	S	11-30-18 00:00		607198-004
BH #2 (0-1')	S	11-30-18 00:00		607198-008
BH #2 (2'-3')	S	11-30-18 00:00		607198-009
BH #2 (4'-5')	S	11-30-18 00:00		607198-010
BH #2 (6'-7')	S	11-30-18 00:00		607198-011
BH #3 (0-1')	S	11-30-18 00:00		607198-015
BH #3 (2'-3')	S	11-30-18 00:00		607198-016
BH #3 (4'-5")	S	11-30-18 00:00		607198-017
BH #3 (6'-7')	S	11-30-18 00:00		607198-018
Background (0-1')	S	11-30-18 00:00		607198-022
Background (2'-3')	S	11-30-18 00:00		607198-023
Background (4'-5')	S	11-30-18 00:00		607198-024
Background (6'-7')	S	11-30-18 00:00		607198-025
Background (9'-10')	S	11-30-18 00:00		607198-026
Background (14'-15')	S	11-30-18 00:00		607198-027
Background (19'-20')	S	11-30-18 00:00		607198-028
BH #1 (9'-10')	S	11-30-18 00:00		Not Analyzed
BH #1 (14'-15')	S	11-30-18 00:00		Not Analyzed
BH # (19-20')	S	11-30-18 00:00		Not Analyzed
BH #2 (9'-10')	S	11-30-18 00:00		Not Analyzed
BH #2 (14'-15')	S	11-30-18 00:00		Not Analyzed
BH #2 (19'-20')	S	11-30-18 00:00		Not Analyzed
BH #3 (9'-10')	S	11-30-18 00:00		Not Analyzed
BH #3 (14-15')	S	11-30-18 00:00		Not Analyzed
BH #3 (19-20')	S	11-30-18 00:00		Not Analyzed



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Cimarex Bonnie 35 Federal #4

Project ID: 212C-MD-00990.03
Work Order Number(s): 607198

Report Date: 12-DEC-18
Date Received: 12/03/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3072194 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3072214 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Ethylbenzene, m,p-Xylenes, o-Xylene RPD was outside laboratory control limits.

Samples in the analytical batch are: 607198-001, -002, -008, -009



Certificate of Analytical Results 607198



Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #1 (0-1')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-001

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.04.18 16.00

Basis: Wet Weight

Seq Number: 3071672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1080	49.9	mg/kg	12.05.18 00.56		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 12.03.18 14.00

Basis: Wet Weight

Seq Number: 3071595

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.03.18 17.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	141	15.0	mg/kg	12.03.18 17.36		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	39.5	15.0	mg/kg	12.03.18 17.36		1
Total TPH	PHC635	181	15.0	mg/kg	12.03.18 17.36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	12.03.18 17.36	
o-Terphenyl	84-15-1	97	%	70-135	12.03.18 17.36	



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #1 (0-1')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-001

Date Collected: 11.30.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 12.07.18 15.00

Basis: Wet Weight

Seq Number: 3072214

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.08.18 14.57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.08.18 14.57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.08.18 14.57	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.08.18 14.57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.08.18 14.57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.08.18 14.57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.08.18 14.57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	81	%	70-130	12.08.18 14.57		
1,4-Difluorobenzene	540-36-3	121	%	70-130	12.08.18 14.57		



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #1 (2'-3')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-002

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.04.18 16.00

Basis: Wet Weight

Seq Number: 3071672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1390	49.7	mg/kg	12.05.18 01.03		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 12.03.18 14.00

Basis: Wet Weight

Seq Number: 3071595

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.03.18 17.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	28.2	15.0	mg/kg	12.03.18 17.55		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.03.18 17.55	U	1
Total TPH	PHC635	28.2	15.0	mg/kg	12.03.18 17.55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	12.03.18 17.55	
o-Terphenyl	84-15-1	91	%	70-135	12.03.18 17.55	



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #1 (2'-3')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-002

Date Collected: 11.30.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 12.07.18 15.00

Basis: Wet Weight

Seq Number: 3072214

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.08.18 15.16	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.08.18 15.16	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.08.18 15.16	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.08.18 15.16	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.08.18 15.16	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.08.18 15.16	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.08.18 15.16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	88	%	70-130	12.08.18 15.16		
1,4-Difluorobenzene	540-36-3	107	%	70-130	12.08.18 15.16		



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #1 (4'-5')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-003

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 11.00

Basis: Wet Weight

Seq Number: 3071841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	335	50.0	mg/kg	12.05.18 15.37		10



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #1 (6'-7')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-004

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 11.00

Basis: Wet Weight

Seq Number: 3071841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	287	50.0	mg/kg	12.05.18 15.43		10



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #2 (0-1')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-008

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.04.18 16.00

Basis: Wet Weight

Seq Number: 3071672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3180	49.5	mg/kg	12.05.18 01.09		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 12.03.18 14.00

Basis: Wet Weight

Seq Number: 3071595

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.03.18 18.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.03.18 18.14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.03.18 18.14	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.03.18 18.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	12.03.18 18.14	
o-Terphenyl	84-15-1	93	%	70-135	12.03.18 18.14	



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #2 (0-1')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-008

Date Collected: 11.30.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 12.07.18 15.00

Basis: Wet Weight

Seq Number: 3072214

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.08.18 15.35	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.08.18 15.35	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.08.18 15.35	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.08.18 15.35	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.08.18 15.35	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.08.18 15.35	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.08.18 15.35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	79	%	70-130	12.08.18 15.35		
1,4-Difluorobenzene	540-36-3	118	%	70-130	12.08.18 15.35		



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #2 (2'-3')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-009

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.04.18 16.00

Basis: Wet Weight

Seq Number: 3071672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	478	49.9	mg/kg	12.05.18 01.15		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 12.03.18 14.00

Basis: Wet Weight

Seq Number: 3071595

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.03.18 18.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.03.18 18.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.03.18 18.33	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.03.18 18.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	12.03.18 18.33	
o-Terphenyl	84-15-1	91	%	70-135	12.03.18 18.33	



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #2 (2'-3')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-009

Date Collected: 11.30.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 12.07.18 15.00

Basis: Wet Weight

Seq Number: 3072214

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.08.18 16.49	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.08.18 16.49	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.08.18 16.49	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.08.18 16.49	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.08.18 16.49	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.08.18 16.49	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.08.18 16.49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	81	%	70-130	12.08.18 16.49		
1,4-Difluorobenzene	540-36-3	112	%	70-130	12.08.18 16.49		



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #2 (4'-5')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-010

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 11.00

Basis: Wet Weight

Seq Number: 3071841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	40.7	5.00	mg/kg	12.06.18 12.12		1



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #2 (6'-7')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-011

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 11.00

Basis: Wet Weight

Seq Number: 3071841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.03	5.03	mg/kg	12.06.18 12.18	U	1



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #3 (0-1')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-015

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.04.18 16.00

Basis: Wet Weight

Seq Number: 3071672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	531	49.5	mg/kg	12.05.18 01.34		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 12.03.18 14.00

Basis: Wet Weight

Seq Number: 3071595

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	12.03.18 18.52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	12.03.18 18.52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	12.03.18 18.52	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	12.03.18 18.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	12.03.18 18.52	
o-Terphenyl	84-15-1	91	%	70-135	12.03.18 18.52	



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #3 (0-1')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-015

Date Collected: 11.30.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 12.07.18 15.30

Basis: Wet Weight

Seq Number: 3072194

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.07.18 19.41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.07.18 19.41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.07.18 19.41	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.07.18 19.41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.07.18 19.41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.07.18 19.41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.07.18 19.41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	12.07.18 19.41		
1,4-Difluorobenzene	540-36-3	102	%	70-130	12.07.18 19.41		



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #3 (2'-3')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-016

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.04.18 16.00

Basis: Wet Weight

Seq Number: 3071672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27.1	4.95	mg/kg	12.11.18 11.58		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 12.03.18 14.00

Basis: Wet Weight

Seq Number: 3071595

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	12.03.18 19.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	12.03.18 19.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	12.03.18 19.11	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	12.03.18 19.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	12.03.18 19.11	
o-Terphenyl	84-15-1	82	%	70-135	12.03.18 19.11	



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #3 (2'-3')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-016

Date Collected: 11.30.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 12.07.18 15.30

Basis: Wet Weight

Seq Number: 3072194

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.07.18 20.03	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.07.18 20.03	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.07.18 20.03	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.07.18 20.03	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.07.18 20.03	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.07.18 20.03	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.07.18 20.03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	12.07.18 20.03		
4-Bromofluorobenzene	460-00-4	93	%	70-130	12.07.18 20.03		



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #3 (4'-5')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-017

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 11.00

Basis: Wet Weight

Seq Number: 3071841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.7	4.96	mg/kg	12.06.18 12.25		1



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #3 (6'-7')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-018

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 11.00

Basis: Wet Weight

Seq Number: 3071841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.1	4.95	mg/kg	12.06.18 12.31		1



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **Background (0-1')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-022

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.04.18 16.00

Basis: Wet Weight

Seq Number: 3071672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	12.05.18 09.23	U	1



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **Background (2'-3')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-023

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.04.18 16.00

Basis: Wet Weight

Seq Number: 3071672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	12.11.18 12.04	U	1



Certificate of Analytical Results 607198



Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **Background (4'-5')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-024

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 11.00

Basis: Wet Weight

Seq Number: 3071841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28.4	4.96	mg/kg	12.06.18 12.37		1



Certificate of Analytical Results 607198

Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **Background (6'-7')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-025

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 11.00

Basis: Wet Weight

Seq Number: 3071841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	111	49.6	mg/kg	12.05.18 16.51		10



Certificate of Analytical Results 607198

Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **Background (9'-10')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-026

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 11.00

Basis: Wet Weight

Seq Number: 3071841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	77.8	4.97	mg/kg	12.11.18 12.10		1



Certificate of Analytical Results 607198

Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **Background (14'-15')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-027

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.11.18 12.00

Basis: Wet Weight

Seq Number: 3072402

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	70.1	4.95	mg/kg	12.11.18 13.49		1



Certificate of Analytical Results 607198

Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **Background (19'-20')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-028

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 17.05

Basis: Wet Weight

Seq Number: 3071847

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	65.4	4.98	mg/kg	12.11.18 12.16		1



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Tetra Tech- Midland
Cimarex Bonnie 35 Federal #4

Analytical Method: Chloride by EPA 300

Seq Number: 3071672

MB Sample Id: 7667334-1-BLK

Matrix: Solid

LCS Sample Id: 7667334-1-BKS

Prep Method: E300P

Date Prep: 12.04.18

LCSD Sample Id: 7667334-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	262	105	273	109	90-110	4	20	mg/kg	12.05.18 00:26	

Analytical Method: Chloride by EPA 300

Seq Number: 3071841

MB Sample Id: 7667390-1-BLK

Matrix: Solid

LCS Sample Id: 7667390-1-BKS

Prep Method: E300P

Date Prep: 12.05.18

LCSD Sample Id: 7667390-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	255	102	253	101	90-110	1	20	mg/kg	12.05.18 09:53	

Analytical Method: Chloride by EPA 300

Seq Number: 3071847

MB Sample Id: 7667436-1-BLK

Matrix: Solid

LCS Sample Id: 7667436-1-BKS

Prep Method: E300P

Date Prep: 12.05.18

LCSD Sample Id: 7667436-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	271	108	266	106	90-110	2	20	mg/kg	12.06.18 03:43	

Analytical Method: Chloride by EPA 300

Seq Number: 3072402

MB Sample Id: 7667800-1-BLK

Matrix: Solid

LCS Sample Id: 7667800-1-BKS

Prep Method: E300P

Date Prep: 12.11.18

LCSD Sample Id: 7667800-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	255	102	263	105	90-110	3	20	mg/kg	12.11.18 13:18	

Analytical Method: Chloride by EPA 300

Seq Number: 3071672

Parent Sample Id: 607188-027

Matrix: Soil

MS Sample Id: 607188-027 S

Prep Method: E300P

Date Prep: 12.04.18

MSD Sample Id: 607188-027 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.857	250	260	104	260	104	90-110	0	20	mg/kg	12.05.18 00:44	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 $Log Diff. = Log(Sample Duplicate) - Log(Original Sample)$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Tetra Tech- Midland
Cimarex Bonnie 35 Federal #4

Analytical Method: Chloride by EPA 300

Seq Number: 3071672

Parent Sample Id: 607206-005

Matrix: Soil

MS Sample Id: 607206-005 S

Prep Method: E300P

Date Prep: 12.04.18

MSD Sample Id: 607206-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	326	248	571	99	578	102	90-110	1	20	mg/kg	12.05.18 02:11	

Analytical Method: Chloride by EPA 300

Seq Number: 3071841

Parent Sample Id: 607383-001

Matrix: Soil

MS Sample Id: 607383-001 S

Prep Method: E300P

Date Prep: 12.05.18

MSD Sample Id: 607383-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	344	252	584	95	586	96	90-110	0	20	mg/kg	12.05.18 14:54	

Analytical Method: Chloride by EPA 300

Seq Number: 3071841

Parent Sample Id: 607383-002

Matrix: Soil

MS Sample Id: 607383-002 S

Prep Method: E300P

Date Prep: 12.05.18

MSD Sample Id: 607383-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	160	252	414	101	429	107	90-110	4	20	mg/kg	12.05.18 16:21	

Analytical Method: Chloride by EPA 300

Seq Number: 3071847

Parent Sample Id: 607336-026

Matrix: Soil

MS Sample Id: 607336-026 S

Prep Method: E300P

Date Prep: 12.05.18

MSD Sample Id: 607336-026 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	25.4	248	279	102	293	108	90-110	5	20	mg/kg	12.06.18 05:03	

Analytical Method: Chloride by EPA 300

Seq Number: 3071847

Parent Sample Id: 607336-036

Matrix: Soil

MS Sample Id: 607336-036 S

Prep Method: E300P

Date Prep: 12.05.18

MSD Sample Id: 607336-036 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	57.6	250	327	108	335	111	90-110	2	20	mg/kg	12.06.18 04:01	X

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Tetra Tech- Midland
Cimarex Bonnie 35 Federal #4

Analytical Method: Chloride by EPA 300

Seq Number: 3072402

Parent Sample Id: 608091-013

Matrix: Soil

MS Sample Id: 608091-013 S

Prep Method: E300P

Date Prep: 12.11.18

MSD Sample Id: 608091-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	0.995	249	248	99	255	102	90-110	3	20	mg/kg	12.11.18 13:37	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3071595

MB Sample Id: 7667325-1-BLK

Matrix: Solid

LCS Sample Id: 7667325-1-BKS

Prep Method: TX1005P

Date Prep: 12.03.18

LCSD Sample Id: 7667325-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	853	85	879	88	70-135	3	20	mg/kg	12.03.18 15:39	
Diesel Range Organics (DRO)	<8.13	1000	842	84	856	86	70-135	2	20	mg/kg	12.03.18 15:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		114		116		70-135	%	12.03.18 15:39
o-Terphenyl	105		93		95		70-135	%	12.03.18 15:39

Analytical Method: TPH By SW8015 Mod

Seq Number: 3071595

Parent Sample Id: 607275-001

Matrix: Soil

MS Sample Id: 607275-001 S

Prep Method: TX1005P

Date Prep: 12.03.18

MSD Sample Id: 607275-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	8.03	999	849	84	850	84	70-135	0	20	mg/kg	12.03.18 16:38	
Diesel Range Organics (DRO)	14.3	999	856	84	858	85	70-135	0	20	mg/kg	12.03.18 16:38	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		101		70-135	%	12.03.18 16:38
o-Terphenyl	91		89		70-135	%	12.03.18 16:38

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Tetra Tech- Midland
Cimarex Bonnie 35 Federal #4

Analytical Method: BTEX by EPA 8021B

Seq Number: 3072214

MB Sample Id: 7667679-1-BLK

Matrix: Solid

LCS Sample Id: 7667679-1-BKS

Prep Method: SW5030B

Date Prep: 12.07.18

LCSD Sample Id: 7667679-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000386	0.100	0.0971	97	0.0855	86	70-130	13	35	mg/kg	12.08.18 11:11	
Toluene	<0.000457	0.100	0.106	106	0.0783	79	70-130	30	35	mg/kg	12.08.18 11:11	
Ethylbenzene	<0.000567	0.100	0.122	122	0.0794	80	70-130	42	35	mg/kg	12.08.18 11:11	F
m,p-Xylenes	<0.00102	0.201	0.230	114	0.146	73	70-130	45	35	mg/kg	12.08.18 11:11	F
o-Xylene	<0.000346	0.100	0.112	112	0.0726	73	70-130	43	35	mg/kg	12.08.18 11:11	F

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		92		108		70-130	%	12.08.18 11:11
4-Bromofluorobenzene	75		90		81		70-130	%	12.08.18 11:11

Analytical Method: BTEX by EPA 8021B

Seq Number: 3072194

MB Sample Id: 7667688-1-BLK

Matrix: Solid

LCS Sample Id: 7667688-1-BKS

Prep Method: SW5030B

Date Prep: 12.07.18

LCSD Sample Id: 7667688-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0861	86	0.101	101	70-130	16	35	mg/kg	12.07.18 17:32	
Toluene	<0.00200	0.0998	0.0763	76	0.0894	89	70-130	16	35	mg/kg	12.07.18 17:32	
Ethylbenzene	<0.00200	0.0998	0.0883	88	0.111	111	70-130	23	35	mg/kg	12.07.18 17:32	
m,p-Xylenes	<0.00399	0.200	0.177	89	0.232	116	70-130	27	35	mg/kg	12.07.18 17:32	
o-Xylene	<0.00200	0.0998	0.0847	85	0.108	108	70-130	24	35	mg/kg	12.07.18 17:32	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	88		128		119		70-130	%	12.07.18 17:32
4-Bromofluorobenzene	85		103		107		70-130	%	12.07.18 17:32

Analytical Method: BTEX by EPA 8021B

Seq Number: 3072214

Parent Sample Id: 607929-002

Matrix: Soil

MS Sample Id: 607929-002 S

Prep Method: SW5030B

Date Prep: 12.07.18

MSD Sample Id: 607929-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0996	0.0883	89	0.0978	98	70-130	10	35	mg/kg	12.10.18 12:01	
Toluene	<0.000454	0.0996	0.0809	81	0.0907	91	70-130	11	35	mg/kg	12.10.18 12:01	
Ethylbenzene	<0.000563	0.0996	0.0863	87	0.0965	97	70-130	11	35	mg/kg	12.10.18 12:01	
m,p-Xylenes	<0.00101	0.199	0.158	79	0.178	89	70-130	12	35	mg/kg	12.10.18 12:01	
o-Xylene	<0.000343	0.0996	0.0763	77	0.0861	86	70-130	12	35	mg/kg	12.10.18 12:01	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		101		70-130	%	12.10.18 12:01
4-Bromofluorobenzene	73		74		70-130	%	12.10.18 12:01

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200 * |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Tetra Tech- Midland
Cimarex Bonnie 35 Federal #4

Analytical Method: BTEX by EPA 8021B

Seq Number: 3072194

Parent Sample Id: 607375-009

Matrix: Soil

MS Sample Id: 607375-009 S

Prep Method: SW5030B

Date Prep: 12.07.18

MSD Sample Id: 607375-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0894	90	0.0963	95	70-130	7	35	mg/kg	12.07.18 18:15	
Toluene	<0.00198	0.0992	0.0773	78	0.0819	81	70-130	6	35	mg/kg	12.07.18 18:15	
Ethylbenzene	<0.00198	0.0992	0.0820	83	0.0829	82	70-130	1	35	mg/kg	12.07.18 18:15	
m,p-Xylenes	<0.00397	0.198	0.159	80	0.157	78	70-130	1	35	mg/kg	12.07.18 18:15	
o-Xylene	<0.00198	0.0992	0.0778	78	0.0772	76	70-130	1	35	mg/kg	12.07.18 18:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		122		70-130	%	12.07.18 18:15
4-Bromofluorobenzene	101		100		70-130	%	12.07.18 18:15

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

10057198

Client Name:		Cimarex		Site Manager:		Clair Gonzales	
Project Name:		Bonnie 35 Federal #4					
Project Location:		(county, state) Eddy County, New Mexico		Project #:		212C-MD-00990.03	
Invoice to:		Cimarex- Christine Alderman					
Receiving Laboratory:		Xenco Midland Tx		Sampler Signature:		Mike Carmona	
Comments: Run deeper samples if TPH exceeds 100 mg/kg. Run deeper samples if benzene exceeds 10 mg/kg or Total BTEX exceeds 50 mg/kg. If Chloride exceeds 600 mg/kg run deeper samples							
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
		YEAR: 2018	DATE				
	BH #1 (0-1')		11/30/2018		X		1 N
	BH #1 (2-3')		11/30/2018		X		1 N
	BH #1 (4-5')		11/30/2018		X		1 N
	BH #1 (6-7')		11/30/2018		X		1 N
	BH #1 (9-10')		11/30/2018		X		1 N
	BH #1 (14-15')		11/30/2018		X		1 N
	BH # (19-20')		11/30/2018		X		1 N
	BH #2 (0-1')		11/30/2018		X		1 N
	BH #2 (2-3')		11/30/2018		X		1 N
Relinquished by:		Date:	Time:	Received by:		Date:	Time:
Mike Carmona		12/31/18	11:10	[Signature]		12/31/19	11:10
Relinquished by:		Date:	Time:	Received by:		Date:	Time:
Relinquished by:		Date:	Time:	Received by:		Date:	Time:

ORIGINAL COPY

LAB USE ONLY	REMARKS:	
	☒ STANDARD	
	☐ RUSH: Same Day 24 hr 48 hr 72 hr	
	☐ Rush Charges Authorized	
	☐ Special Report Limits or TRRP Report	
	Sample Temperature	
	O-3/6.2	
	12	
	(Circle) HAND DELIVERED FEDEX UPS Tracking #:	

ANALYSIS REQUEST (Circle or Specify Method No.)	
BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

 4000 N. Big Spring Street, Ste
 401 Midland, Texas 79705
 Tel (432) 682-4559
 Fax (432) 682-3946

Page 2 of 3

Client Name: Cimarex		Site Manager: Clair Gonzales	
Project Name: Bonnie 35 Federal #4			
Project Location: (county, state) Eddy County, New Mexico		Project #: 212C-MD-00990.03	
Invoice to: Cimarex- Christine Alderman		Sampler Signature: Mike Carmona	
Receiving Laboratory: Xenco Midland Tx			
Comments: Run deeper samples if TPH exceeds 100 mg/kg. Run deeper samples if benzene exceeds 10 mg/kg or Total BTEX exceeds 50 mg/kg. If Chloride exceeds 600 mg/kg run deeper samples			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME		WATER	SOIL	HCL	HNO ₃	ICE			None
	BH #2 (4-5)	11/30/2018		X			X				1	N
	BH #2 (6-7)	11/30/2018		X			X				1	N
	BH #2 (9-10)	11/30/2018		X			X				1	N
	BH #2 (14-15)	11/30/2018		X			X				1	N
	BH #2 (19-20)	11/30/2018		X			X				1	N
	BH #3 (0-1)	11/30/2018		X			X				1	N
	BH #3 (2-3)	11/30/2018		X			X				1	N
	BH #3 (4-5)	11/30/2018		X			X				1	N
	BH #3 (6-7)	11/30/2018		X			X				1	N

Relinquished by: Mike Carmona	Date: 12-3-18	Time: 1100	Received by: [Signature]	Date: 12/13/18	Time: 1100
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
☒ STANDARD ☐ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report	BTEX 8021B BTEX 8260B TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste 401
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Cimarex		Site Manager: Clair Gonzales					
Project Name: Bonnie 35 Federal #4							
Project Location: (county, state) Eddy County, New Mexico		Project #: 212C-MD-00990.03					
Invoice to: Cimarex-Christine Alderman							
Receiving Laboratory: Xenco Midland TX		Sampler Signature: Mike Carmona					
Comments: Run deeper samples if TPH exceeds 100 mg/kg. Run deeper samples if benzene exceeds 10 mg/kg or Total BTEX exceeds 50 mg/kg. If Chloride exceeds 600 mg/kg run deeper samples							
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
		YEAR: 2018	DATE				
	BH #3 (9'-10')		11/30/2018		X		1 N
	BH #3 (14'-15')		11/30/2018		X		1 N
	BH #3 (19-20')		11/30/2018		X		1 N
	Background (0-1')		11/30/2018		X		1 N
	Background (2-3')		11/30/2018		X		1 N
	Background (4-5')		11/30/2018		X		1 N
	Background (6-7')		11/30/2018		X		1 N
	Background (9-10')		11/30/2018		X		1 N
	Background (14-15')		11/30/2018		X		1 N
	Background (19-20')		11/30/2018		X		1 N
Relinquished by: Mike Carmona		Date: 12-3-18	Time: 1110	Received by: [Signature]		Date: 12/3/18	Time: 1110
Relinquished by:		Date:	Time:	Received by:		Date:	Time:
Relinquished by:		Date:	Time:	Received by:		Date:	Time:

ORIGINAL COPY

LAB USE ONLY	REMARKS:	BTEX 8021B BTEX 8260B	
		TPH TX1005 (Ext to C35)	
Sample Temperature	STANDARD	TPH 8015M (GRO - DRO - ORO - MRO)	
		PAH 8270C	
0.36-2	RUSH: Same Day 24 hr 48 hr 72 hr	Total Metals Ag As Ba Cd Cr Pb Se Hg	
		TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
Kg	Special Report Limits or TRRP Report	TCLP Volatiles	
		TCLP Semi Volatiles	
RUSH: Same Day 24 hr 48 hr 72 hr	Special Report Limits or TRRP Report	RCI	
		GC/MS Vol. 8260B / 624	
Special Report Limits or TRRP Report	Special Report Limits or TRRP Report	GC/MS Semi. Vol. 8270C/625	
		PCB's 8082 / 608	
Special Report Limits or TRRP Report	Special Report Limits or TRRP Report	NORM	
		PLM (Asbestos)	
Special Report Limits or TRRP Report	Special Report Limits or TRRP Report	Chloride	
		Chloride Sulfate TDS	
Special Report Limits or TRRP Report	Special Report Limits or TRRP Report	General Water Chemistry (see attached list)	
		Anion/Cation Balance	
Special Report Limits or TRRP Report	Special Report Limits or TRRP Report	Hold	



Client: Tetra Tech- Midland

Date/ Time Received: 12/03/2018 11:10:00 AM

Work Order #: 607198

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 12/03/2018

Checklist reviewed by:

Kelsey Brooks

Date: 12/04/2018



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/26/2024 12:03:49 PM

JOB DESCRIPTION

Bonnie 35 Federal Com #4H
Eddy Co, NM

JOB NUMBER

880-52554-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



Generated
12/26/2024 12:03:49 PM

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

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Laboratory Job ID: 880-52554-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, 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.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1

Job ID: 880-52554-1

Eurofins Midland

Job Narrative
880-52554-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 12/20/2024 1:42 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 -4.7°C.

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-98732 and analytical batch 880-98597 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-23 (2.0') (880-52554-33), CS-24 (2.0') (880-52554-34), CS-26 (2.0') (880-52554-36), CS-28 (3.5') (880-52554-38) and (LCS 880-98732/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-98732 and analytical batch 880-98595 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 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-98595 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-98595/5).

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98528 and analytical batch 880-98531 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 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98549 and analytical batch 880-98574 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: SW-1 (2.0')

Lab Sample ID: 880-52554-1

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:40	12/20/24 22:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:40	12/20/24 22:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:40	12/20/24 22:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 14:40	12/20/24 22:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:40	12/20/24 22:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 14:40	12/20/24 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/20/24 14:40	12/20/24 22:47	1
1,4-Difluorobenzene (Surr)	109		70 - 130	12/20/24 14:40	12/20/24 22:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/20/24 22:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/23/24 12:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/23/24 10:46	12/23/24 12:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/23/24 10:46	12/23/24 12:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/23/24 10:46	12/23/24 12:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	12/23/24 10:46	12/23/24 12:29	1
o-Terphenyl	87		70 - 130	12/23/24 10:46	12/23/24 12:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	578	F1	10.0		mg/Kg			12/22/24 17:11	1

Client Sample ID: SW-2 (2.0')

Lab Sample ID: 880-52554-2

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:40	12/20/24 23:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:40	12/20/24 23:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:40	12/20/24 23:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 14:40	12/20/24 23:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:40	12/20/24 23:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 14:40	12/20/24 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/20/24 14:40	12/20/24 23:08	1
1,4-Difluorobenzene (Surr)	108		70 - 130	12/20/24 14:40	12/20/24 23:08	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: SW-2 (2.0')

Lab Sample ID: 880-52554-2

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/20/24 23:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/23/24 13:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 13:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 13:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				12/23/24 10:46	12/23/24 13:30	1
o-Terphenyl	85		70 - 130				12/23/24 10:46	12/23/24 13:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	606		10.1		mg/Kg			12/22/24 17:28	1

Client Sample ID: SW-3 (2.0')

Lab Sample ID: 880-52554-3

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:40	12/20/24 23:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/20/24 23:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/20/24 23:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 14:40	12/20/24 23:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/20/24 23:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 14:40	12/20/24 23:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				12/20/24 14:40	12/20/24 23:28	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/20/24 14:40	12/20/24 23:28	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			12/20/24 23:28	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			12/23/24 13:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/23/24 10:46	12/23/24 13:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/23/24 10:46	12/23/24 13:51	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: SW-3 (2.0')

Lab Sample ID: 880-52554-3

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/23/24 10:46	12/23/24 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				12/23/24 10:46	12/23/24 13:51	1
o-Terphenyl	84		70 - 130				12/23/24 10:46	12/23/24 13:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	574		10.1		mg/Kg			12/22/24 17:34	1

Client Sample ID: SW-4 (2.0')

Lab Sample ID: 880-52554-4

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:40	12/20/24 23:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:40	12/20/24 23:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:40	12/20/24 23:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 14:40	12/20/24 23:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:40	12/20/24 23:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 14:40	12/20/24 23:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				12/20/24 14:40	12/20/24 23:53	1
1,4-Difluorobenzene (Surr)	99		70 - 130				12/20/24 14:40	12/20/24 23:53	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			12/20/24 23:53	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			12/23/24 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/23/24 10:46	12/23/24 14:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/23/24 10:46	12/23/24 14:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/23/24 10:46	12/23/24 14:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				12/23/24 10:46	12/23/24 14:11	1
o-Terphenyl	86		70 - 130				12/23/24 10:46	12/23/24 14:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	363		9.94		mg/Kg			12/22/24 17:52	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: SW-5 (2.0')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-5
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		12/20/24 14:40	12/21/24 00:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 00:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 00:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 14:40	12/21/24 00:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 00:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 14:40	12/21/24 00:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				12/20/24 14:40	12/21/24 00:15	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/20/24 14:40	12/21/24 00:15	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			12/21/24 00:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/23/24 14:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 14:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 14:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				12/23/24 10:46	12/23/24 14:32	1
o-Terphenyl	93		70 - 130				12/23/24 10:46	12/23/24 14:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	553		9.96		mg/Kg			12/22/24 17:58	1

Client Sample ID: SW-6 (2.0')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-6
Matrix: Solid

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		12/20/24 14:40	12/21/24 00:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:40	12/21/24 00:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:40	12/21/24 00:36	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 14:40	12/21/24 00:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:40	12/21/24 00:36	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 14:40	12/21/24 00:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				12/20/24 14:40	12/21/24 00:36	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/20/24 14:40	12/21/24 00:36	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: SW-6 (2.0')

Lab Sample ID: 880-52554-6

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/21/24 00:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/23/24 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/23/24 10:46	12/23/24 14:52	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/23/24 10:46	12/23/24 14:52	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/23/24 10:46	12/23/24 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				12/23/24 10:46	12/23/24 14:52	1
o-Terphenyl	107		70 - 130				12/23/24 10:46	12/23/24 14:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	570		9.98		mg/Kg			12/22/24 18:04	1

Client Sample ID: SW-7 (3.5')

Lab Sample ID: 880-52554-7

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:40	12/21/24 00:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:40	12/21/24 00:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:40	12/21/24 00:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 14:40	12/21/24 00:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:40	12/21/24 00:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 14:40	12/21/24 00:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				12/20/24 14:40	12/21/24 00:56	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/20/24 14:40	12/21/24 00:56	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			12/21/24 00:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/23/24 15:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/23/24 10:46	12/23/24 15:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/23/24 10:46	12/23/24 15:42	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: SW-7 (3.5')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-7
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/23/24 10:46	12/23/24 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				12/23/24 10:46	12/23/24 15:42	1
o-Terphenyl	95		70 - 130				12/23/24 10:46	12/23/24 15:42	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	189		9.96		mg/Kg			12/22/24 18:10	1

Client Sample ID: SW-8 (3.5')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-8
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		12/20/24 14:40	12/21/24 01:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 01:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 01:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 14:40	12/21/24 01:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 01:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 14:40	12/21/24 01:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				12/20/24 14:40	12/21/24 01:17	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/20/24 14:40	12/21/24 01:17	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			12/21/24 01:17	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			12/23/24 16:02	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/23/24 10:46	12/23/24 16:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/23/24 10:46	12/23/24 16:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/23/24 10:46	12/23/24 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				12/23/24 10:46	12/23/24 16:02	1
o-Terphenyl	97		70 - 130				12/23/24 10:46	12/23/24 16:02	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		10.0		mg/Kg			12/22/24 18:16	1

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: SW-9 (3.5')

Lab Sample ID: 880-52554-9

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:40	12/21/24 01:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:40	12/21/24 01:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:40	12/21/24 01:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 14:40	12/21/24 01:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:40	12/21/24 01:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 14:40	12/21/24 01:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/20/24 14:40	12/21/24 01:37	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/20/24 14:40	12/21/24 01:37	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			12/21/24 01:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/23/24 16:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 16:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 16:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	12/23/24 10:46	12/23/24 16:23	1
o-Terphenyl	96		70 - 130	12/23/24 10:46	12/23/24 16:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	228		10.0		mg/Kg			12/22/24 18:22	1

Client Sample ID: SW-10 (3.5')

Lab Sample ID: 880-52554-10

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:40	12/21/24 01:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 01:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 01:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 14:40	12/21/24 01:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 01:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 14:40	12/21/24 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	12/20/24 14:40	12/21/24 01:58	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/20/24 14:40	12/21/24 01:58	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: SW-10 (3.5')

Lab Sample ID: 880-52554-10

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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			12/21/24 01:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/23/24 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/23/24 10:46	12/23/24 16:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/23/24 10:46	12/23/24 16:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/23/24 10:46	12/23/24 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				12/23/24 10:46	12/23/24 16:43	1
o-Terphenyl	96		70 - 130				12/23/24 10:46	12/23/24 16:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	149		9.92		mg/Kg			12/22/24 18:28	1

Client Sample ID: CS-1 (2.0')

Lab Sample ID: 880-52554-11

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:40	12/21/24 03:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:40	12/21/24 03:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:40	12/21/24 03:32	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 14:40	12/21/24 03:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:40	12/21/24 03:32	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 14:40	12/21/24 03:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				12/20/24 14:40	12/21/24 03:32	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/20/24 14:40	12/21/24 03:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/21/24 03:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/23/24 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/23/24 10:46	12/23/24 17:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/23/24 10:46	12/23/24 17:24	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-1 (2.0')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-11
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)	<49.9	U	49.9		mg/Kg		12/23/24 10:46	12/23/24 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				12/23/24 10:46	12/23/24 17:24	1
o-Terphenyl	89		70 - 130				12/23/24 10:46	12/23/24 17:24	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	462	F1 F2	10.0		mg/Kg			12/23/24 09:24	1

Client Sample ID: CS-2 (2.0')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-12
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		12/20/24 14:40	12/21/24 03:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 03:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 03:53	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 14:40	12/21/24 03:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 03:53	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 14:40	12/21/24 03:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				12/20/24 14:40	12/21/24 03:53	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/20/24 14:40	12/21/24 03:53	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			12/21/24 03:53	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/23/24 17:45	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 17:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 17:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 17:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				12/23/24 10:46	12/23/24 17:45	1
o-Terphenyl	87		70 - 130				12/23/24 10:46	12/23/24 17:45	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	346		10.1		mg/Kg			12/23/24 09:45	1

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-3 (2.0')

Lab Sample ID: 880-52554-13

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:40	12/21/24 04:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 04:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 04:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 14:40	12/21/24 04:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 04:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 14:40	12/21/24 04:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	12/20/24 14:40	12/21/24 04:13	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/20/24 14:40	12/21/24 04:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/21/24 04:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/23/24 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 18:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 18:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	12/23/24 10:46	12/23/24 18:05	1
o-Terphenyl	94		70 - 130	12/23/24 10:46	12/23/24 18:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	458		9.96		mg/Kg			12/23/24 09:52	1

Client Sample ID: CS-4 (2.0')

Lab Sample ID: 880-52554-14

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:40	12/21/24 04:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:40	12/21/24 04:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:40	12/21/24 04:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 14:40	12/21/24 04:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:40	12/21/24 04:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 14:40	12/21/24 04:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/20/24 14:40	12/21/24 04:34	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/20/24 14:40	12/21/24 04:34	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-4 (2.0')

Lab Sample ID: 880-52554-14

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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			12/21/24 04:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/23/24 18:26	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	<49.7	U	49.7		mg/Kg		12/23/24 10:46	12/23/24 18:26	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/23/24 10:46	12/23/24 18:26	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/23/24 10:46	12/23/24 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				12/23/24 10:46	12/23/24 18:26	1
o-Terphenyl	89		70 - 130				12/23/24 10:46	12/23/24 18:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	533		9.98		mg/Kg			12/23/24 09:59	1

Client Sample ID: CS-5 (2.0')

Lab Sample ID: 880-52554-15

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:40	12/21/24 04:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:40	12/21/24 04:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:40	12/21/24 04:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 14:40	12/21/24 04:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:40	12/21/24 04:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 14:40	12/21/24 04:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				12/20/24 14:40	12/21/24 04:54	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/20/24 14:40	12/21/24 04:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/21/24 04:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/23/24 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 18:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 18:47	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-5 (2.0')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-15
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				12/23/24 10:46	12/23/24 18:47	1
o-Terphenyl	89		70 - 130				12/23/24 10:46	12/23/24 18:47	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	459		9.90		mg/Kg			12/23/24 10:05	1

Client Sample ID: CS-6 (2.0')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-16
Matrix: Solid

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		12/20/24 14:40	12/21/24 05:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:40	12/21/24 05:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:40	12/21/24 05:14	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/20/24 14:40	12/21/24 05:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:40	12/21/24 05:14	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/24 14:40	12/21/24 05:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				12/20/24 14:40	12/21/24 05:14	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/20/24 14:40	12/21/24 05:14	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/21/24 05:14	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/23/24 19:07	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/23/24 10:46	12/23/24 19:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/23/24 10:46	12/23/24 19:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/23/24 10:46	12/23/24 19:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				12/23/24 10:46	12/23/24 19:07	1
o-Terphenyl	93		70 - 130				12/23/24 10:46	12/23/24 19:07	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	410		10.1		mg/Kg			12/23/24 10:26	1

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-7 (2.0')

Lab Sample ID: 880-52554-17

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:40	12/21/24 05:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 05:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 05:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 14:40	12/21/24 05:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 05:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 14:40	12/21/24 05:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	12/20/24 14:40	12/21/24 05:35	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/20/24 14:40	12/21/24 05:35	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			12/21/24 05:35	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			12/23/24 19:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/23/24 10:46	12/23/24 19:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/23/24 10:46	12/23/24 19:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/23/24 10:46	12/23/24 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	12/23/24 10:46	12/23/24 19:27	1
o-Terphenyl	95		70 - 130	12/23/24 10:46	12/23/24 19:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	501		10.1		mg/Kg			12/23/24 10:33	1

Client Sample ID: CS-8 (2.0')

Lab Sample ID: 880-52554-18

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:40	12/21/24 05:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:40	12/21/24 05:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:40	12/21/24 05:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 14:40	12/21/24 05:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:40	12/21/24 05:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 14:40	12/21/24 05:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	12/20/24 14:40	12/21/24 05:55	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/20/24 14:40	12/21/24 05:55	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-8 (2.0')

Lab Sample ID: 880-52554-18

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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			12/21/24 05:55	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			12/23/24 19:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 19:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 19:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 10:46	12/23/24 19:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				12/23/24 10:46	12/23/24 19:48	1
o-Terphenyl	89		70 - 130				12/23/24 10:46	12/23/24 19:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	539		9.96		mg/Kg			12/23/24 10:40	1

Client Sample ID: CS-9 (2.0')

Lab Sample ID: 880-52554-19

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:40	12/21/24 06:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:40	12/21/24 06:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:40	12/21/24 06:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 14:40	12/21/24 06:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:40	12/21/24 06:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 14:40	12/21/24 06:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				12/20/24 14:40	12/21/24 06:16	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/20/24 14:40	12/21/24 06:16	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			12/21/24 06:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/23/24 20:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/23/24 10:46	12/23/24 20:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/23/24 10:46	12/23/24 20:09	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-9 (2.0')

Lab Sample ID: 880-52554-19

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/23/24 10:46	12/23/24 20:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				12/23/24 10:46	12/23/24 20:09	1
o-Terphenyl	92		70 - 130				12/23/24 10:46	12/23/24 20:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	510		9.98		mg/Kg			12/23/24 10:46	1

Client Sample ID: CS-10 (2.0')

Lab Sample ID: 880-52554-20

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:40	12/21/24 06:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 06:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 06:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 14:40	12/21/24 06:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/21/24 06:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 14:40	12/21/24 06:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				12/20/24 14:40	12/21/24 06:36	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/20/24 14:40	12/21/24 06:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/21/24 06:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/23/24 20:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/23/24 10:46	12/23/24 20:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/23/24 10:46	12/23/24 20:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/23/24 10:46	12/23/24 20:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				12/23/24 10:46	12/23/24 20:29	1
o-Terphenyl	91		70 - 130				12/23/24 10:46	12/23/24 20:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	316		9.96		mg/Kg			12/23/24 10:53	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-11 (2.0')

Lab Sample ID: 880-52554-21

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:43	12/20/24 22:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:43	12/20/24 22:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:43	12/20/24 22:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 14:43	12/20/24 22:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:43	12/20/24 22:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 14:43	12/20/24 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	12/20/24 14:43	12/20/24 22:45	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/20/24 14:43	12/20/24 22:45	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			12/20/24 22:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1450		49.9		mg/Kg			12/23/24 17:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	840	F1 F2	49.9		mg/Kg		12/23/24 15:44	12/23/24 17:05	1
Diesel Range Organics (Over C10-C28)	611	F1 F2	49.9		mg/Kg		12/23/24 15:44	12/23/24 17:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/23/24 15:44	12/23/24 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	12/23/24 15:44	12/23/24 17:05	1
o-Terphenyl	92		70 - 130	12/23/24 15:44	12/23/24 17:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	441		10.0		mg/Kg			12/23/24 11:00	1

Client Sample ID: CS-12 (2.0')

Lab Sample ID: 880-52554-22

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:43	12/20/24 23:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:43	12/20/24 23:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:43	12/20/24 23:05	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 14:43	12/20/24 23:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:43	12/20/24 23:05	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 14:43	12/20/24 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	12/20/24 14:43	12/20/24 23:05	1
1,4-Difluorobenzene (Surr)	110		70 - 130	12/20/24 14:43	12/20/24 23:05	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-12 (2.0')

Lab Sample ID: 880-52554-22

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/20/24 23:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/23/24 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 17:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 17:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				12/23/24 15:44	12/23/24 17:24	1
o-Terphenyl	109		70 - 130				12/23/24 15:44	12/23/24 17:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	477		9.96		mg/Kg			12/23/24 11:21	1

Client Sample ID: CS-13 (2.0')

Lab Sample ID: 880-52554-23

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:43	12/20/24 23:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/20/24 23:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/20/24 23:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 14:43	12/20/24 23:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/20/24 23:26	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 14:43	12/20/24 23:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				12/20/24 14:43	12/20/24 23:26	1
1,4-Difluorobenzene (Surr)	104		70 - 130				12/20/24 14:43	12/20/24 23:26	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			12/20/24 23:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/23/24 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/23/24 15:44	12/23/24 17:44	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/23/24 15:44	12/23/24 17:44	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-13 (2.0')

Lab Sample ID: 880-52554-23

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/23/24 15:44	12/23/24 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				12/23/24 15:44	12/23/24 17:44	1
o-Terphenyl	113		70 - 130				12/23/24 15:44	12/23/24 17:44	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	493		9.90		mg/Kg			12/23/24 11:28	1

Client Sample ID: CS-14 (2.0')

Lab Sample ID: 880-52554-24

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:43	12/20/24 23:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:43	12/20/24 23:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:43	12/20/24 23:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 14:43	12/20/24 23:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:43	12/20/24 23:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 14:43	12/20/24 23:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				12/20/24 14:43	12/20/24 23:46	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/20/24 14:43	12/20/24 23:46	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			12/20/24 23:46	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/23/24 18:03	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 18:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				12/23/24 15:44	12/23/24 18:03	1
o-Terphenyl	106		70 - 130				12/23/24 15:44	12/23/24 18:03	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	462		9.92		mg/Kg			12/23/24 11:48	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-15 (2.0')

Lab Sample ID: 880-52554-25

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:43	12/21/24 00:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 00:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 00:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 14:43	12/21/24 00:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 00:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 14:43	12/21/24 00:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				12/20/24 14:43	12/21/24 00:07	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/20/24 14:43	12/21/24 00:07	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			12/21/24 00:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/23/24 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/23/24 15:44	12/23/24 18:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/23/24 15:44	12/23/24 18:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/23/24 15:44	12/23/24 18:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				12/23/24 15:44	12/23/24 18:22	1
o-Terphenyl	113		70 - 130				12/23/24 15:44	12/23/24 18:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	671		9.92		mg/Kg			12/23/24 11:55	1

Client Sample ID: CS-16 (2.0')

Lab Sample ID: 880-52554-26

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:43	12/21/24 00:27	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:43	12/21/24 00:27	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:43	12/21/24 00:27	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 14:43	12/21/24 00:27	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:43	12/21/24 00:27	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 14:43	12/21/24 00:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				12/20/24 14:43	12/21/24 00:27	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/20/24 14:43	12/21/24 00:27	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-16 (2.0')

Lab Sample ID: 880-52554-26

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/21/24 00:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/23/24 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 18:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 18:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				12/23/24 15:44	12/23/24 18:42	1
o-Terphenyl	111		70 - 130				12/23/24 15:44	12/23/24 18:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	686		9.96		mg/Kg			12/23/24 12:02	1

Client Sample ID: CS-17 (2.0')

Lab Sample ID: 880-52554-27

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:43	12/21/24 00:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:43	12/21/24 00:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:43	12/21/24 00:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 14:43	12/21/24 00:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:43	12/21/24 00:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 14:43	12/21/24 00:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				12/20/24 14:43	12/21/24 00:48	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/20/24 14:43	12/21/24 00:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/21/24 00:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/23/24 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/23/24 15:44	12/23/24 19:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/23/24 15:44	12/23/24 19:01	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-17 (2.0')

Lab Sample ID: 880-52554-27

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/23/24 15:44	12/23/24 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				12/23/24 15:44	12/23/24 19:01	1
o-Terphenyl	111		70 - 130				12/23/24 15:44	12/23/24 19:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	455		10.0		mg/Kg			12/23/24 12:09	1

Client Sample ID: CS-18 (2.0')

Lab Sample ID: 880-52554-28

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:43	12/21/24 01:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 01:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 01:08	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 14:43	12/21/24 01:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 01:08	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 14:43	12/21/24 01:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				12/20/24 14:43	12/21/24 01:08	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/20/24 14:43	12/21/24 01:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/21/24 01:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/23/24 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/23/24 15:44	12/23/24 19:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/23/24 15:44	12/23/24 19:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/23/24 15:44	12/23/24 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				12/23/24 15:44	12/23/24 19:21	1
o-Terphenyl	103		70 - 130				12/23/24 15:44	12/23/24 19:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	409		10.0		mg/Kg			12/23/24 12:15	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-19 (2.0')

Lab Sample ID: 880-52554-29

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:43	12/21/24 01:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:43	12/21/24 01:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:43	12/21/24 01:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 14:43	12/21/24 01:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:43	12/21/24 01:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 14:43	12/21/24 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	12/20/24 14:43	12/21/24 01:28	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/20/24 14:43	12/21/24 01:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/21/24 01:28	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			12/23/24 19:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/23/24 15:44	12/23/24 19:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/23/24 15:44	12/23/24 19:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/23/24 15:44	12/23/24 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	12/23/24 15:44	12/23/24 19:39	1
o-Terphenyl	105		70 - 130	12/23/24 15:44	12/23/24 19:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	770		10.0		mg/Kg			12/23/24 12:22	1

Client Sample ID: CS-20 (2.0')

Lab Sample ID: 880-52554-30

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:43	12/21/24 01:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 01:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 01:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 14:43	12/21/24 01:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 01:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 14:43	12/21/24 01:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	12/20/24 14:43	12/21/24 01:49	1
1,4-Difluorobenzene (Surr)	104		70 - 130	12/20/24 14:43	12/21/24 01:49	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-20 (2.0')

Lab Sample ID: 880-52554-30

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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			12/21/24 01:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/23/24 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 16:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 16:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				12/23/24 15:44	12/23/24 16:46	1
o-Terphenyl	127		70 - 130				12/23/24 15:44	12/23/24 16:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	621		10.1		mg/Kg			12/23/24 12:29	1

Client Sample ID: CS-21 (2.0')

Lab Sample ID: 880-52554-31

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:43	12/21/24 03:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:43	12/21/24 03:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:43	12/21/24 03:22	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 14:43	12/21/24 03:22	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:43	12/21/24 03:22	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 14:43	12/21/24 03:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				12/20/24 14:43	12/21/24 03:22	1
1,4-Difluorobenzene (Surr)	105		70 - 130				12/20/24 14:43	12/21/24 03:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/21/24 03:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/23/24 17:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/23/24 15:44	12/23/24 17:05	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/23/24 15:44	12/23/24 17:05	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-21 (2.0')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-31
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/23/24 15:44	12/23/24 17:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				12/23/24 15:44	12/23/24 17:05	1
o-Terphenyl	120		70 - 130				12/23/24 15:44	12/23/24 17:05	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	482		10.0		mg/Kg			12/23/24 10:00	1

Client Sample ID: CS-22 (2.0')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-32
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		12/20/24 14:43	12/21/24 03:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 03:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 03:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 14:43	12/21/24 03:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 03:43	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 14:43	12/21/24 03:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				12/20/24 14:43	12/21/24 03:43	1
1,4-Difluorobenzene (Surr)	108		70 - 130				12/20/24 14:43	12/21/24 03:43	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			12/21/24 03:43	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			12/23/24 17:24	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 17:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 17:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				12/23/24 15:44	12/23/24 17:24	1
o-Terphenyl	122		70 - 130				12/23/24 15:44	12/23/24 17:24	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	328		9.96		mg/Kg			12/23/24 10:18	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-23 (2.0')

Lab Sample ID: 880-52554-33

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:43	12/21/24 04:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 04:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 04:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 14:43	12/21/24 04:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 04:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 14:43	12/21/24 04:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				12/20/24 14:43	12/21/24 04:03	1
1,4-Difluorobenzene (Surr)	103		70 - 130				12/20/24 14:43	12/21/24 04:03	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			12/21/24 04:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/23/24 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/23/24 15:44	12/23/24 17:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/23/24 15:44	12/23/24 17:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/23/24 15:44	12/23/24 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				12/23/24 15:44	12/23/24 17:44	1
o-Terphenyl	142	S1+	70 - 130				12/23/24 15:44	12/23/24 17:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	772		9.90		mg/Kg			12/23/24 10:24	1

Client Sample ID: CS-24 (2.0')

Lab Sample ID: 880-52554-34

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:43	12/21/24 04:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:43	12/21/24 04:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:43	12/21/24 04:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 14:43	12/21/24 04:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:43	12/21/24 04:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 14:43	12/21/24 04:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				12/20/24 14:43	12/21/24 04:24	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/20/24 14:43	12/21/24 04:24	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-24 (2.0')

Lab Sample ID: 880-52554-34

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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			12/21/24 04:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/23/24 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/23/24 15:44	12/23/24 18:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/23/24 15:44	12/23/24 18:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/23/24 15:44	12/23/24 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				12/23/24 15:44	12/23/24 18:03	1
o-Terphenyl	147	S1+	70 - 130				12/23/24 15:44	12/23/24 18:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	658		10.1		mg/Kg			12/23/24 10:30	1

Client Sample ID: CS-25 (2.0')

Lab Sample ID: 880-52554-35

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:43	12/21/24 04:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:43	12/21/24 04:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:43	12/21/24 04:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 14:43	12/21/24 04:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:43	12/21/24 04:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 14:43	12/21/24 04:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				12/20/24 14:43	12/21/24 04:44	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/20/24 14:43	12/21/24 04:44	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			12/21/24 04:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/23/24 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 18:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 18:22	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-25 (2.0')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-35
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 18:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				12/23/24 15:44	12/23/24 18:22	1
o-Terphenyl	124		70 - 130				12/23/24 15:44	12/23/24 18:22	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	520		9.98		mg/Kg			12/23/24 10:36	1

Client Sample ID: CS-26 (2.0')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-36
Matrix: Solid

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		12/20/24 14:43	12/21/24 05:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:43	12/21/24 05:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:43	12/21/24 05:05	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/20/24 14:43	12/21/24 05:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:43	12/21/24 05:05	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/24 14:43	12/21/24 05:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				12/20/24 14:43	12/21/24 05:05	1
1,4-Difluorobenzene (Surr)	110		70 - 130				12/20/24 14:43	12/21/24 05:05	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/21/24 05:05	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/23/24 18:42	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/23/24 15:44	12/23/24 18:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/23/24 15:44	12/23/24 18:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/23/24 15:44	12/23/24 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130				12/23/24 15:44	12/23/24 18:42	1
o-Terphenyl	141	S1+	70 - 130				12/23/24 15:44	12/23/24 18:42	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	324		9.90		mg/Kg			12/23/24 10:53	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-27 (2.0')

Lab Sample ID: 880-52554-37

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:43	12/21/24 05:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 05:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 05:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 14:43	12/21/24 05:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 05:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 14:43	12/21/24 05:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	12/20/24 14:43	12/21/24 05:25	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/20/24 14:43	12/21/24 05:25	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			12/21/24 05:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/23/24 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 19:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 19:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	12/23/24 15:44	12/23/24 19:01	1
o-Terphenyl	126		70 - 130	12/23/24 15:44	12/23/24 19:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	460		10.0		mg/Kg			12/23/24 10:59	1

Client Sample ID: CS-28 (3.5')

Lab Sample ID: 880-52554-38

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:43	12/21/24 05:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:43	12/21/24 05:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:43	12/21/24 05:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 14:43	12/21/24 05:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:43	12/21/24 05:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 14:43	12/21/24 05:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	12/20/24 14:43	12/21/24 05:45	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/20/24 14:43	12/21/24 05:45	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-28 (3.5')

Lab Sample ID: 880-52554-38

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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			12/21/24 05:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/23/24 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/23/24 15:44	12/23/24 19:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/23/24 15:44	12/23/24 19:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/23/24 15:44	12/23/24 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				12/23/24 15:44	12/23/24 19:21	1
o-Terphenyl	147	S1+	70 - 130				12/23/24 15:44	12/23/24 19:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		10.0		mg/Kg			12/23/24 11:05	1

Client Sample ID: CS-29 (3.5')

Lab Sample ID: 880-52554-39

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:43	12/21/24 06:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:43	12/21/24 06:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:43	12/21/24 06:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 14:43	12/21/24 06:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:43	12/21/24 06:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 14:43	12/21/24 06:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				12/20/24 14:43	12/21/24 06:06	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/20/24 14:43	12/21/24 06:06	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			12/21/24 06:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/23/24 19:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 19:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:44	12/23/24 19:39	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-29 (3.5')

Lab Sample ID: 880-52554-39

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/23/24 15:44	12/23/24 19:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				12/23/24 15:44	12/23/24 19:39	1
o-Terphenyl	125		70 - 130				12/23/24 15:44	12/23/24 19:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		9.98		mg/Kg			12/23/24 11:11	1

Client Sample ID: CS-30 (3.5')

Lab Sample ID: 880-52554-40

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:43	12/21/24 06:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 06:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 06:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 14:43	12/21/24 06:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/21/24 06:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 14:43	12/21/24 06:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				12/20/24 14:43	12/21/24 06:26	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/20/24 14:43	12/21/24 06:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/21/24 06:26	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			12/23/24 19:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/23/24 15:44	12/23/24 19:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/23/24 15:44	12/23/24 19:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/23/24 15:44	12/23/24 19:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				12/23/24 15:44	12/23/24 19:58	1
o-Terphenyl	122		70 - 130				12/23/24 15:44	12/23/24 19:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	215		9.96		mg/Kg			12/23/24 11:17	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-31 (3.5')

Lab Sample ID: 880-52554-41

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:51	12/21/24 00:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:51	12/21/24 00:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:51	12/21/24 00:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 14:51	12/21/24 00:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:51	12/21/24 00:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 14:51	12/21/24 00:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	12/20/24 14:51	12/21/24 00:52	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/20/24 14:51	12/21/24 00:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/21/24 00:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/24/24 01:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/23/24 15:07	12/24/24 01:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/23/24 15:07	12/24/24 01:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/23/24 15:07	12/24/24 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	12/23/24 15:07	12/24/24 01:38	1
o-Terphenyl	92		70 - 130	12/23/24 15:07	12/24/24 01:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		9.94		mg/Kg			12/23/24 11:23	1

Client Sample ID: CS-32 (3.5')

Lab Sample ID: 880-52554-42

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:51	12/21/24 01:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:51	12/21/24 01:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:51	12/21/24 01:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 14:51	12/21/24 01:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:51	12/21/24 01:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 14:51	12/21/24 01:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/20/24 14:51	12/21/24 01:12	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/20/24 14:51	12/21/24 01:12	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-32 (3.5')

Lab Sample ID: 880-52554-42

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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			12/21/24 01:12	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			12/24/24 01:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:07	12/24/24 01:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:07	12/24/24 01:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:07	12/24/24 01:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				12/23/24 15:07	12/24/24 01:58	1
o-Terphenyl	94		70 - 130				12/23/24 15:07	12/24/24 01:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	182		10.0		mg/Kg			12/23/24 11:41	1

Client Sample ID: CS-33 (3.5')

Lab Sample ID: 880-52554-43

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:51	12/21/24 02:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:51	12/21/24 02:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:51	12/21/24 02:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 14:51	12/21/24 02:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:51	12/21/24 02:35	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 14:51	12/21/24 02:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				12/20/24 14:51	12/21/24 02:35	1
1,4-Difluorobenzene (Surr)	97		70 - 130				12/20/24 14:51	12/21/24 02:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/21/24 02:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/24/24 02:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/23/24 15:07	12/24/24 02:40	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/23/24 15:07	12/24/24 02:40	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-33 (3.5')

Lab Sample ID: 880-52554-43

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/23/24 15:07	12/24/24 02:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				12/23/24 15:07	12/24/24 02:40	1
o-Terphenyl	98		70 - 130				12/23/24 15:07	12/24/24 02:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	159		10.1		mg/Kg			12/23/24 11:47	1

Client Sample ID: CS-34 (3.5')

Lab Sample ID: 880-52554-44

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:51	12/21/24 02:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:51	12/21/24 02:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:51	12/21/24 02:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 14:51	12/21/24 02:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:51	12/21/24 02:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 14:51	12/21/24 02:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				12/20/24 14:51	12/21/24 02:56	1
1,4-Difluorobenzene (Surr)	94		70 - 130				12/20/24 14:51	12/21/24 02:56	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			12/21/24 02:56	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			12/24/24 03:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/23/24 15:07	12/24/24 03:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/23/24 15:07	12/24/24 03:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/23/24 15:07	12/24/24 03:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				12/23/24 15:07	12/24/24 03:00	1
o-Terphenyl	100		70 - 130				12/23/24 15:07	12/24/24 03:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	198		10.1		mg/Kg			12/23/24 12:04	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-35 (3.5')

Lab Sample ID: 880-52554-45

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:51	12/21/24 03:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:51	12/21/24 03:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:51	12/21/24 03:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 14:51	12/21/24 03:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:51	12/21/24 03:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 14:51	12/21/24 03:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	12/20/24 14:51	12/21/24 03:16	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/20/24 14:51	12/21/24 03:16	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			12/21/24 03:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/24/24 03:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:07	12/24/24 03:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:07	12/24/24 03:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:07	12/24/24 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	12/23/24 15:07	12/24/24 03:20	1
o-Terphenyl	109		70 - 130	12/23/24 15:07	12/24/24 03:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.5		9.96		mg/Kg			12/23/24 12:10	1

Client Sample ID: CS-36 (3.5')

Lab Sample ID: 880-52554-46

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:51	12/21/24 03:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:51	12/21/24 03:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:51	12/21/24 03:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 14:51	12/21/24 03:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:51	12/21/24 03:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 14:51	12/21/24 03:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	12/20/24 14:51	12/21/24 03:37	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/20/24 14:51	12/21/24 03:37	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-36 (3.5')

Lab Sample ID: 880-52554-46

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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			12/21/24 03:37	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			12/24/24 03:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/23/24 15:07	12/24/24 03:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/23/24 15:07	12/24/24 03:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/23/24 15:07	12/24/24 03:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				12/23/24 15:07	12/24/24 03:41	1
o-Terphenyl	90		70 - 130				12/23/24 15:07	12/24/24 03:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		9.90		mg/Kg			12/23/24 12:16	1

Client Sample ID: CS-37 (3.5')

Lab Sample ID: 880-52554-47

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:51	12/21/24 03:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:51	12/21/24 03:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:51	12/21/24 03:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 14:51	12/21/24 03:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:51	12/21/24 03:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 14:51	12/21/24 03:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				12/20/24 14:51	12/21/24 03:57	1
1,4-Difluorobenzene (Surr)	95		70 - 130				12/20/24 14:51	12/21/24 03:57	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			12/21/24 03:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/24/24 04:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/23/24 15:07	12/24/24 04:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/23/24 15:07	12/24/24 04:02	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-37 (3.5')

Lab Sample ID: 880-52554-47

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/23/24 15:07	12/24/24 04:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				12/23/24 15:07	12/24/24 04:02	1
o-Terphenyl	90		70 - 130				12/23/24 15:07	12/24/24 04:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	148		10.0		mg/Kg			12/23/24 12:22	1

Client Sample ID: CS-38 (3.5')

Lab Sample ID: 880-52554-48

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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		12/20/24 14:51	12/21/24 04:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:51	12/21/24 04:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:51	12/21/24 04:18	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/20/24 14:51	12/21/24 04:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:51	12/21/24 04:18	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/24 14:51	12/21/24 04:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				12/20/24 14:51	12/21/24 04:18	1
1,4-Difluorobenzene (Surr)	94		70 - 130				12/20/24 14:51	12/21/24 04:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/21/24 04:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/24/24 04:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:07	12/24/24 04:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:07	12/24/24 04:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:07	12/24/24 04:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				12/23/24 15:07	12/24/24 04:29	1
o-Terphenyl	98		70 - 130				12/23/24 15:07	12/24/24 04:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.7		9.98		mg/Kg			12/23/24 12:28	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-52553-A-21-A MS	Matrix Spike	106	97
880-52553-A-21-B MSD	Matrix Spike Duplicate	105	97
880-52554-1	SW-1 (2.0')	116	109
880-52554-1 MS	SW-1 (2.0')	109	103
880-52554-1 MSD	SW-1 (2.0')	110	103
880-52554-2	SW-2 (2.0')	114	108
880-52554-3	SW-3 (2.0')	111	107
880-52554-4	SW-4 (2.0')	105	99
880-52554-5	SW-5 (2.0')	116	107
880-52554-6	SW-6 (2.0')	116	107
880-52554-7	SW-7 (3.5')	114	106
880-52554-8	SW-8 (3.5')	112	107
880-52554-9	SW-9 (3.5')	115	107
880-52554-10	SW-10 (3.5')	113	107
880-52554-11	CS-1 (2.0')	111	107
880-52554-12	CS-2 (2.0')	113	106
880-52554-13	CS-3 (2.0')	113	107
880-52554-14	CS-4 (2.0')	117	107
880-52554-15	CS-5 (2.0')	112	107
880-52554-16	CS-6 (2.0')	111	107
880-52554-17	CS-7 (2.0')	119	107
880-52554-18	CS-8 (2.0')	110	107
880-52554-19	CS-9 (2.0')	114	107
880-52554-20	CS-10 (2.0')	111	106
880-52554-21	CS-11 (2.0')	103	102
880-52554-21 MS	CS-11 (2.0')	97	104
880-52554-21 MSD	CS-11 (2.0')	101	107
880-52554-22	CS-12 (2.0')	103	110
880-52554-23	CS-13 (2.0')	99	104
880-52554-24	CS-14 (2.0')	97	106
880-52554-25	CS-15 (2.0')	103	102
880-52554-26	CS-16 (2.0')	103	102
880-52554-27	CS-17 (2.0')	99	107
880-52554-28	CS-18 (2.0')	103	102
880-52554-29	CS-19 (2.0')	99	106
880-52554-30	CS-20 (2.0')	99	104
880-52554-31	CS-21 (2.0')	104	105
880-52554-32	CS-22 (2.0')	103	108
880-52554-33	CS-23 (2.0')	100	103
880-52554-34	CS-24 (2.0')	95	107
880-52554-35	CS-25 (2.0')	103	106
880-52554-36	CS-26 (2.0')	107	110
880-52554-37	CS-27 (2.0')	101	105
880-52554-38	CS-28 (3.5')	99	105
880-52554-39	CS-29 (3.5')	104	102
880-52554-40	CS-30 (3.5')	102	107
880-52554-41	CS-31 (3.5')	124	94
880-52554-42	CS-32 (3.5')	117	95
880-52554-43	CS-33 (3.5')	123	97

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-52554-1

Project/Site: Bonnie 35 Federal Com #4H

SDG: Eddy 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)
880-52554-44	CS-34 (3.5')	121	94
880-52554-45	CS-35 (3.5')	121	95
880-52554-46	CS-36 (3.5')	125	97
880-52554-47	CS-37 (3.5')	120	95
880-52554-48	CS-38 (3.5')	125	94
LCS 880-98491/1-A	Lab Control Sample	106	103
LCS 880-98493/1-A	Lab Control Sample	97	101
LCS 880-98495/1-A	Lab Control Sample	103	100
LCSD 880-98491/2-A	Lab Control Sample Dup	107	103
LCSD 880-98493/2-A	Lab Control Sample Dup	96	104
LCSD 880-98495/2-A	Lab Control Sample Dup	99	98
MB 880-98432/5-A	Method Blank	112	85
MB 880-98433/5-A	Method Blank	98	96
MB 880-98434/5-A	Method Blank	111	101
MB 880-98491/5-A	Method Blank	110	101
MB 880-98493/5-A	Method Blank	100	104
MB 880-98495/5-A	Method Blank	118	91
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)
880-52553-A-21-F MS	Matrix Spike	94	85
880-52553-A-21-G MSD	Matrix Spike Duplicate	95	85
880-52554-1	SW-1 (2.0')	84	87
880-52554-1 MS	SW-1 (2.0')	89	80
880-52554-1 MSD	SW-1 (2.0')	89	83
880-52554-2	SW-2 (2.0')	84	85
880-52554-3	SW-3 (2.0')	81	84
880-52554-4	SW-4 (2.0')	84	86
880-52554-5	SW-5 (2.0')	91	93
880-52554-6	SW-6 (2.0')	100	107
880-52554-7	SW-7 (3.5')	89	95
880-52554-8	SW-8 (3.5')	95	97
880-52554-9	SW-9 (3.5')	95	96
880-52554-10	SW-10 (3.5')	97	96
880-52554-11	CS-1 (2.0')	84	89
880-52554-12	CS-2 (2.0')	82	87
880-52554-13	CS-3 (2.0')	90	94
880-52554-14	CS-4 (2.0')	87	89
880-52554-15	CS-5 (2.0')	87	89
880-52554-16	CS-6 (2.0')	94	93
880-52554-17	CS-7 (2.0')	96	95
880-52554-18	CS-8 (2.0')	91	89
880-52554-19	CS-9 (2.0')	94	92

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-52554-1

Project/Site: Bonnie 35 Federal Com #4H

SDG: Eddy 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)
880-52554-20	CS-10 (2.0')	97	91
880-52554-21	CS-11 (2.0')	104	92
880-52554-21 MS	CS-11 (2.0')	118	117
880-52554-21 MSD	CS-11 (2.0')	113	99
880-52554-22	CS-12 (2.0')	114	109
880-52554-23	CS-13 (2.0')	120	113
880-52554-24	CS-14 (2.0')	113	106
880-52554-25	CS-15 (2.0')	123	113
880-52554-26	CS-16 (2.0')	120	111
880-52554-27	CS-17 (2.0')	120	111
880-52554-28	CS-18 (2.0')	110	103
880-52554-29	CS-19 (2.0')	110	105
880-52554-30	CS-20 (2.0')	125	127
880-52554-31	CS-21 (2.0')	119	120
880-52554-32	CS-22 (2.0')	121	122
880-52554-33	CS-23 (2.0')	138 S1+	142 S1+
880-52554-34	CS-24 (2.0')	143 S1+	147 S1+
880-52554-35	CS-25 (2.0')	121	124
880-52554-36	CS-26 (2.0')	140 S1+	141 S1+
880-52554-37	CS-27 (2.0')	118	126
880-52554-38	CS-28 (3.5')	139 S1+	147 S1+
880-52554-39	CS-29 (3.5')	122	125
880-52554-40	CS-30 (3.5')	116	122
880-52554-41	CS-31 (3.5')	94	92
880-52554-42	CS-32 (3.5')	92	94
880-52554-43	CS-33 (3.5')	100	98
880-52554-44	CS-34 (3.5')	105	100
880-52554-45	CS-35 (3.5')	109	109
880-52554-46	CS-36 (3.5')	86	90
880-52554-47	CS-37 (3.5')	86	90
880-52554-48	CS-38 (3.5')	93	98
LCS 880-98642/2-A	Lab Control Sample	105	101
LCS 880-98722/2-A	Lab Control Sample	96	96
LCS 880-98732/2-A	Lab Control Sample	130	116
LCS 880-98732/2-A	Lab Control Sample	136 S1+	134 S1+
LCSD 880-98642/3-A	Lab Control Sample Dup	107	107
LCSD 880-98722/3-A	Lab Control Sample Dup	113	108
LCSD 880-98732/3-A	Lab Control Sample Dup	122	110
LCSD 880-98732/3-A	Lab Control Sample Dup	106	104
MB 880-98722/1-A	Method Blank	89	95
MB 880-98732/1-A	Method Blank	128	136 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Surrogate Summary

Client: Carmona Resources

Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1

SDG: Eddy Co, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		1CO1	OTPH1						
Lab Sample ID	Client Sample ID								
MB 880-98642/1-A	Method Blank								
MB 880-98732/1-A	Method Blank								
Surrogate Legend									
1CO = 1-Chlorooctane									
OTPH = o-Terphenyl									

QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98432/5-A

Matrix: Solid

Analysis Batch: 98350

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:24	12/20/24 11:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:24	12/20/24 11:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:24	12/20/24 11:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 08:24	12/20/24 11:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:24	12/20/24 11:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 08:24	12/20/24 11:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	12/20/24 08:24	12/20/24 11:08	1
1,4-Difluorobenzene (Surr)	85		70 - 130	12/20/24 08:24	12/20/24 11:08	1

Lab Sample ID: MB 880-98433/5-A

Matrix: Solid

Analysis Batch: 98351

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98433

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:27	12/20/24 11:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:27	12/20/24 11:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:27	12/20/24 11:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 08:27	12/20/24 11:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:27	12/20/24 11:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 08:27	12/20/24 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	12/20/24 08:27	12/20/24 11:02	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/20/24 08:27	12/20/24 11:02	1

Lab Sample ID: MB 880-98434/5-A

Matrix: Solid

Analysis Batch: 98352

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 11:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 11:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 08:30	12/20/24 11:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 11:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 08:30	12/20/24 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	12/20/24 08:30	12/20/24 11:25	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/20/24 08:30	12/20/24 11:25	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-98491/5-A

Matrix: Solid

Analysis Batch: 98352

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98491

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/20/24 22:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/20/24 22:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/20/24 22:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 14:40	12/20/24 22:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:40	12/20/24 22:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 14:40	12/20/24 22:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	12/20/24 14:40	12/20/24 22:25	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/20/24 14:40	12/20/24 22:25	1

Lab Sample ID: LCS 880-98491/1-A

Matrix: Solid

Analysis Batch: 98352

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98491

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1116		mg/Kg		112	70 - 130
Toluene	0.100	0.1060		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1012		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2027		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1047		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-98491/2-A

Matrix: Solid

Analysis Batch: 98352

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98491

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1104		mg/Kg		110	70 - 130	1	35
Toluene	0.100	0.1061		mg/Kg		106	70 - 130	0	35
Ethylbenzene	0.100	0.1037		mg/Kg		104	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2117		mg/Kg		106	70 - 130	4	35
o-Xylene	0.100	0.1085		mg/Kg		109	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-52554-1 MS

Matrix: Solid

Analysis Batch: 98352

Client Sample ID: SW-1 (2.0')

Prep Type: Total/NA

Prep Batch: 98491

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1053		mg/Kg		106	70 - 130
Toluene	<0.00199	U	0.0996	0.1013		mg/Kg		102	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-52554-1 MS

Matrix: Solid

Analysis Batch: 98352

Client Sample ID: SW-1 (2.0')

Prep Type: Total/NA

Prep Batch: 98491

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.09749		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1975		mg/Kg		99	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1015		mg/Kg		102	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	109		70 - 130						
1,4-Difluorobenzene (Surr)	103		70 - 130						

Lab Sample ID: 880-52554-1 MSD

Matrix: Solid

Analysis Batch: 98352

Client Sample ID: SW-1 (2.0')

Prep Type: Total/NA

Prep Batch: 98491

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1063		mg/Kg		105	70 - 130	1	35
Toluene	<0.00199	U	0.101	0.1029		mg/Kg		102	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.101	0.09940		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2007		mg/Kg		100	70 - 130	2	35
o-Xylene	<0.00199	U	0.101	0.1030		mg/Kg		102	70 - 130	1	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	110		70 - 130								
1,4-Difluorobenzene (Surr)	103		70 - 130								

Lab Sample ID: MB 880-98493/5-A

Matrix: Solid

Analysis Batch: 98351

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/20/24 22:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/20/24 22:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/20/24 22:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 14:43	12/20/24 22:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:43	12/20/24 22:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 14:43	12/20/24 22:23	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				12/20/24 14:43	12/20/24 22:23	1
1,4-Difluorobenzene (Surr)	104		70 - 130				12/20/24 14:43	12/20/24 22:23	1

Lab Sample ID: LCS 880-98493/1-A

Matrix: Solid

Analysis Batch: 98351

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1095		mg/Kg		109	70 - 130
Toluene	0.100	0.1027		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1030		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2039		mg/Kg		102	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-98493/1-A

Matrix: Solid

Analysis Batch: 98351

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1031		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-98493/2-A

Matrix: Solid

Analysis Batch: 98351

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98493

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1177		mg/Kg		118	70 - 130	7	35
Toluene	0.100	0.1105		mg/Kg		110	70 - 130	7	35
Ethylbenzene	0.100	0.1105		mg/Kg		111	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2200		mg/Kg		110	70 - 130	8	35
o-Xylene	0.100	0.1111		mg/Kg		111	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-52554-21 MS

Matrix: Solid

Analysis Batch: 98351

Client Sample ID: CS-11 (2.0')

Prep Type: Total/NA

Prep Batch: 98493

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1080		mg/Kg		108	70 - 130
Toluene	<0.00199	U	0.0996	0.1008		mg/Kg		101	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.1007		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1989		mg/Kg		100	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1007		mg/Kg		101	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-52554-21 MSD

Matrix: Solid

Analysis Batch: 98351

Client Sample ID: CS-11 (2.0')

Prep Type: Total/NA

Prep Batch: 98493

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1104		mg/Kg		110	70 - 130	2	35
Toluene	<0.00199	U	0.101	0.1038		mg/Kg		103	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.101	0.1038		mg/Kg		103	70 - 130	3	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2046		mg/Kg		102	70 - 130	3	35
o-Xylene	<0.00199	U	0.101	0.1033		mg/Kg		103	70 - 130	3	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-52554-21 MSD

Matrix: Solid

Analysis Batch: 98351

Client Sample ID: CS-11 (2.0')

Prep Type: Total/NA

Prep Batch: 98493

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-98495/5-A

Matrix: Solid

Analysis Batch: 98350

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98495

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:51	12/20/24 21:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:51	12/20/24 21:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:51	12/20/24 21:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 14:51	12/20/24 21:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:51	12/20/24 21:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 14:51	12/20/24 21:46	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				12/20/24 14:51	12/20/24 21:46	1
1,4-Difluorobenzene (Surr)	91		70 - 130				12/20/24 14:51	12/20/24 21:46	1

Lab Sample ID: LCS 880-98495/1-A

Matrix: Solid

Analysis Batch: 98350

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98495

Analyte	Spike	LCS	LCS					%Rec	
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.1153		mg/Kg		115	70 - 130		
Toluene	0.100	0.1070		mg/Kg		107	70 - 130		
Ethylbenzene	0.100	0.1097		mg/Kg		110	70 - 130		
m-Xylene & p-Xylene	0.200	0.2186		mg/Kg		109	70 - 130		
o-Xylene	0.100	0.1129		mg/Kg		113	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-98495/2-A

Matrix: Solid

Analysis Batch: 98350

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98495

Analyte	Spike	LCSD	LCSD					%Rec		RPD
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1152		mg/Kg		115	70 - 130	0	35	
Toluene	0.100	0.1077		mg/Kg		108	70 - 130	1	35	
Ethylbenzene	0.100	0.1101		mg/Kg		110	70 - 130	0	35	
m-Xylene & p-Xylene	0.200	0.2199		mg/Kg		110	70 - 130	1	35	
o-Xylene	0.100	0.1134		mg/Kg		113	70 - 130	0	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-98495/2-A
Matrix: Solid
Analysis Batch: 98350

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98495

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

Lab Sample ID: 880-52553-A-21-A MS
Matrix: Solid
Analysis Batch: 98350

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 98495

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1044		mg/Kg		105	70 - 130
Toluene	<0.00199	U	0.0996	0.09755		mg/Kg		98	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.1000		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1968		mg/Kg		99	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1008		mg/Kg		101	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-52553-A-21-B MSD
Matrix: Solid
Analysis Batch: 98350

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 98495

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1044		mg/Kg		104	70 - 130	0	35
Toluene	<0.00199	U	0.101	0.09842		mg/Kg		98	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.101	0.1005		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1992		mg/Kg		99	70 - 130	1	35
o-Xylene	<0.00199	U	0.101	0.1018		mg/Kg		101	70 - 130	1	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-98642/1-A
Matrix: Solid
Analysis Batch: 98593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98642

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		12/23/24 09:00	12/23/24 09:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 09:00	12/23/24 09:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 09:00	12/23/24 09:32	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane				12/23/24 09:00	12/23/24 09:32	1			
o-Terphenyl				12/23/24 09:00	12/23/24 09:32	1			

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QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-98642/2-A

Matrix: Solid

Analysis Batch: 98593

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98642

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	936.0		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	971.1		mg/Kg		97	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	105		70 - 130				
o-Terphenyl	101		70 - 130				

Lab Sample ID: LCSD 880-98642/3-A

Matrix: Solid

Analysis Batch: 98593

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98642

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1046		mg/Kg		105	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	994.1		mg/Kg		99	70 - 130	2	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	107		70 - 130						
o-Terphenyl	107		70 - 130						

Lab Sample ID: 880-52554-1 MS

Matrix: Solid

Analysis Batch: 98593

Client Sample ID: SW-1 (2.0')

Prep Type: Total/NA

Prep Batch: 98642

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	1000	751.9		mg/Kg		72	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	730.5		mg/Kg		73	70 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
1-Chlorooctane	89		70 - 130						
o-Terphenyl	80		70 - 130						

Lab Sample ID: 880-52554-1 MSD

Matrix: Solid

Analysis Batch: 98593

Client Sample ID: SW-1 (2.0')

Prep Type: Total/NA

Prep Batch: 98642

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	758.8		mg/Kg		73	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	764.3		mg/Kg		76	70 - 130	5	20
Surrogate	%Recovery	MSD Qualifier	Limits								
1-Chlorooctane	89		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-52554-1 MSD

Matrix: Solid

Analysis Batch: 98593

Client Sample ID: SW-1 (2.0')

Prep Type: Total/NA

Prep Batch: 98642

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	83		70 - 130

Lab Sample ID: MB 880-98722/1-A

Matrix: Solid

Analysis Batch: 98593

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98722

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:07	12/23/24 21:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:07	12/23/24 21:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:07	12/23/24 21:11	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	89		70 - 130				12/23/24 15:07	12/23/24 21:11	1
<i>o</i> -Terphenyl	95		70 - 130				12/23/24 15:07	12/23/24 21:11	1

Lab Sample ID: LCS 880-98722/2-A

Matrix: Solid

Analysis Batch: 98593

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	908.7		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	898.4		mg/Kg		90	70 - 130
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
1-Chlorooctane	96		70 - 130				
<i>o</i> -Terphenyl	96		70 - 130				

Lab Sample ID: LCSD 880-98722/3-A

Matrix: Solid

Analysis Batch: 98593

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98722

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1047		mg/Kg		105	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	1000	1027		mg/Kg		103	70 - 130	13	20
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	113		70 - 130						
<i>o</i> -Terphenyl	108		70 - 130						

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QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-52553-A-21-F MS
Matrix: Solid
Analysis Batch: 98593

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 98722

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	770.7		mg/Kg		74	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	769.2		mg/Kg		77	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	94		70 - 130						
o-Terphenyl	85		70 - 130						

Lab Sample ID: 880-52553-A-21-G MSD
Matrix: Solid
Analysis Batch: 98593

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 98722

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	785.1		mg/Kg		76	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	777.9		mg/Kg		78	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	95		70 - 130								
o-Terphenyl	85		70 - 130								

Lab Sample ID: MB 880-98732/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 98595

Prep Batch: 98732

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		12/23/24 08:00	12/23/24 09:50	1
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 08:00	12/23/24 09:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 08:00	12/23/24 09:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 08:00	12/23/24 09:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 08:00	12/23/24 09:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 08:00	12/23/24 09:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane							12/23/24 08:00	12/23/24 09:50	1
1-Chlorooctane	128		70 - 130				12/23/24 08:00	12/23/24 09:50	1
o-Terphenyl							12/23/24 08:00	12/23/24 09:50	1
o-Terphenyl	136	S1+	70 - 130				12/23/24 08:00	12/23/24 09:50	1

QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-98732/2-A
Matrix: Solid
Analysis Batch: 98595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98732

Analyte	Spike			LCS		Unit	D	%Rec	%Rec	
	Added	Result	Qualifier	Result	Qualifier				Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	906.3				mg/Kg		91	70 - 130	
Gasoline Range Organics (GRO)-C6-C10	1000	1170				mg/Kg		117	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	844.8				mg/Kg		84	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1230				mg/Kg		123	70 - 130	
Surrogate	LCS		Qualifier	LCS		Limits				
	%Recovery	Result		%Recovery	Result					
1-Chlorooctane	130					70 - 130				
1-Chlorooctane	136		S1+			70 - 130				
o-Terphenyl	116					70 - 130				
o-Terphenyl	134		S1+			70 - 130				

Lab Sample ID: LCSD 880-98732/3-A
Matrix: Solid
Analysis Batch: 98595

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98732

Analyte	Spike			LCSD		Unit	D	%Rec	%Rec		RPD	
	Added	Result	Qualifier	Result	Qualifier				Limits		RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	901.1				mg/Kg		90	70 - 130		1	20
Gasoline Range Organics (GRO)-C6-C10	1000	1009				mg/Kg		101	70 - 130		15	20
Diesel Range Organics (Over C10-C28)	1000	874.8				mg/Kg		87	70 - 130		3	20
Diesel Range Organics (Over C10-C28)	1000	1002				mg/Kg		100	70 - 130		20	20
Surrogate	LCSD		Qualifier	LCSD		Limits						
	%Recovery	Result		%Recovery	Result							
1-Chlorooctane	122					70 - 130						
1-Chlorooctane	106					70 - 130						
o-Terphenyl	110					70 - 130						
o-Terphenyl	104					70 - 130						

Lab Sample ID: 880-52554-21 MS
Matrix: Solid
Analysis Batch: 98595

Client Sample ID: CS-11 (2.0')
Prep Type: Total/NA
Prep Batch: 98732

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Gasoline Range Organics (GRO)-C6-C10	840	F1 F2	995	<49.8	U F1	mg/Kg		-80	70 - 130	
Diesel Range Organics (Over C10-C28)	611	F1 F2	995	190.9	F1	mg/Kg		-42	70 - 130	
Surrogate	MS		Qualifier	MS		Limits				
	%Recovery	Result		%Recovery	Result					
1-Chlorooctane	118					70 - 130				
o-Terphenyl	117					70 - 130				

QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-52554-21 MSD

Matrix: Solid

Analysis Batch: 98595

Client Sample ID: CS-11 (2.0')

Prep Type: Total/NA

Prep Batch: 98732

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	840	F1 F2	995	883.2	F1 F2	mg/Kg		4	70 - 130	183	20
Diesel Range Organics (Over C10-C28)	611	F1 F2	995	648.3	F1 F2	mg/Kg		4	70 - 130	109	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	113		70 - 130								
o-Terphenyl	99		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98528/1-A

Matrix: Solid

Analysis Batch: 98531

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/21/24 22:05	1

Lab Sample ID: LCS 880-98528/2-A

Matrix: Solid

Analysis Batch: 98531

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	255.1		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-98528/3-A

Matrix: Solid

Analysis Batch: 98531

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	264.0		mg/Kg		106	90 - 110	3	20

Lab Sample ID: 880-52554-1 MS

Matrix: Solid

Analysis Batch: 98531

Client Sample ID: SW-1 (2.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	578	F1	251	856.4	F1	mg/Kg		111	90 - 110

Lab Sample ID: 880-52554-1 MSD

Matrix: Solid

Analysis Batch: 98531

Client Sample ID: SW-1 (2.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	578	F1	251	842.5		mg/Kg		105	90 - 110	2	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-98549/1-A

Matrix: Solid

Analysis Batch: 98574

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/23/24 09:04	1

Lab Sample ID: LCS 880-98549/2-A

Matrix: Solid

Analysis Batch: 98574

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	245.9		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-98549/3-A

Matrix: Solid

Analysis Batch: 98574

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	238.5		mg/Kg		95	90 - 110	3	20

Lab Sample ID: 880-52554-11 MS

Matrix: Solid

Analysis Batch: 98574

Client Sample ID: CS-1 (2.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	462	F1 F2	250	1394	F1	mg/Kg		373	90 - 110

Lab Sample ID: 880-52554-11 MSD

Matrix: Solid

Analysis Batch: 98574

Client Sample ID: CS-1 (2.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	462	F1 F2	250	776.7	F1 F2	mg/Kg		126	90 - 110	57	20

Lab Sample ID: 880-52554-21 MS

Matrix: Solid

Analysis Batch: 98574

Client Sample ID: CS-11 (2.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	441		251	692.9		mg/Kg		100	90 - 110

Lab Sample ID: 880-52554-21 MSD

Matrix: Solid

Analysis Batch: 98574

Client Sample ID: CS-11 (2.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	441		251	703.5		mg/Kg		104	90 - 110	2	20

Lab Sample ID: MB 880-98550/1-A

Matrix: Solid

Analysis Batch: 98575

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/23/24 09:43	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-98550/2-A

Matrix: Solid

Analysis Batch: 98575

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	232.2		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-98550/3-A

Matrix: Solid

Analysis Batch: 98575

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	232.2		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 880-52554-31 MS

Matrix: Solid

Analysis Batch: 98575

Client Sample ID: CS-21 (2.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	482		251	731.0		mg/Kg		99	90 - 110

Lab Sample ID: 880-52554-31 MSD

Matrix: Solid

Analysis Batch: 98575

Client Sample ID: CS-21 (2.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	482		251	732.4		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-52554-41 MS

Matrix: Solid

Analysis Batch: 98575

Client Sample ID: CS-31 (3.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	201		249	456.7		mg/Kg		103	90 - 110

Lab Sample ID: 880-52554-41 MSD

Matrix: Solid

Analysis Batch: 98575

Client Sample ID: CS-31 (3.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	201		249	459.0		mg/Kg		104	90 - 110	0	20

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QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 98350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-41	CS-31 (3.5')	Total/NA	Solid	8021B	98495
880-52554-42	CS-32 (3.5')	Total/NA	Solid	8021B	98495
880-52554-43	CS-33 (3.5')	Total/NA	Solid	8021B	98495
880-52554-44	CS-34 (3.5')	Total/NA	Solid	8021B	98495
880-52554-45	CS-35 (3.5')	Total/NA	Solid	8021B	98495
880-52554-46	CS-36 (3.5')	Total/NA	Solid	8021B	98495
880-52554-47	CS-37 (3.5')	Total/NA	Solid	8021B	98495
880-52554-48	CS-38 (3.5')	Total/NA	Solid	8021B	98495
MB 880-98432/5-A	Method Blank	Total/NA	Solid	8021B	98432
MB 880-98495/5-A	Method Blank	Total/NA	Solid	8021B	98495
LCS 880-98495/1-A	Lab Control Sample	Total/NA	Solid	8021B	98495
LCSD 880-98495/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98495
880-52553-A-21-A MS	Matrix Spike	Total/NA	Solid	8021B	98495
880-52553-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98495

Analysis Batch: 98351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-21	CS-11 (2.0')	Total/NA	Solid	8021B	98493
880-52554-22	CS-12 (2.0')	Total/NA	Solid	8021B	98493
880-52554-23	CS-13 (2.0')	Total/NA	Solid	8021B	98493
880-52554-24	CS-14 (2.0')	Total/NA	Solid	8021B	98493
880-52554-25	CS-15 (2.0')	Total/NA	Solid	8021B	98493
880-52554-26	CS-16 (2.0')	Total/NA	Solid	8021B	98493
880-52554-27	CS-17 (2.0')	Total/NA	Solid	8021B	98493
880-52554-28	CS-18 (2.0')	Total/NA	Solid	8021B	98493
880-52554-29	CS-19 (2.0')	Total/NA	Solid	8021B	98493
880-52554-30	CS-20 (2.0')	Total/NA	Solid	8021B	98493
880-52554-31	CS-21 (2.0')	Total/NA	Solid	8021B	98493
880-52554-32	CS-22 (2.0')	Total/NA	Solid	8021B	98493
880-52554-33	CS-23 (2.0')	Total/NA	Solid	8021B	98493
880-52554-34	CS-24 (2.0')	Total/NA	Solid	8021B	98493
880-52554-35	CS-25 (2.0')	Total/NA	Solid	8021B	98493
880-52554-36	CS-26 (2.0')	Total/NA	Solid	8021B	98493
880-52554-37	CS-27 (2.0')	Total/NA	Solid	8021B	98493
880-52554-38	CS-28 (3.5')	Total/NA	Solid	8021B	98493
880-52554-39	CS-29 (3.5')	Total/NA	Solid	8021B	98493
880-52554-40	CS-30 (3.5')	Total/NA	Solid	8021B	98493
MB 880-98433/5-A	Method Blank	Total/NA	Solid	8021B	98433
MB 880-98493/5-A	Method Blank	Total/NA	Solid	8021B	98493
LCS 880-98493/1-A	Lab Control Sample	Total/NA	Solid	8021B	98493
LCSD 880-98493/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98493
880-52554-21 MS	CS-11 (2.0')	Total/NA	Solid	8021B	98493
880-52554-21 MSD	CS-11 (2.0')	Total/NA	Solid	8021B	98493

Analysis Batch: 98352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-1	SW-1 (2.0')	Total/NA	Solid	8021B	98491
880-52554-2	SW-2 (2.0')	Total/NA	Solid	8021B	98491
880-52554-3	SW-3 (2.0')	Total/NA	Solid	8021B	98491
880-52554-4	SW-4 (2.0')	Total/NA	Solid	8021B	98491
880-52554-5	SW-5 (2.0')	Total/NA	Solid	8021B	98491

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QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

GC VOA (Continued)

Analysis Batch: 98352 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-6	SW-6 (2.0')	Total/NA	Solid	8021B	98491
880-52554-7	SW-7 (3.5')	Total/NA	Solid	8021B	98491
880-52554-8	SW-8 (3.5')	Total/NA	Solid	8021B	98491
880-52554-9	SW-9 (3.5')	Total/NA	Solid	8021B	98491
880-52554-10	SW-10 (3.5')	Total/NA	Solid	8021B	98491
880-52554-11	CS-1 (2.0')	Total/NA	Solid	8021B	98491
880-52554-12	CS-2 (2.0')	Total/NA	Solid	8021B	98491
880-52554-13	CS-3 (2.0')	Total/NA	Solid	8021B	98491
880-52554-14	CS-4 (2.0')	Total/NA	Solid	8021B	98491
880-52554-15	CS-5 (2.0')	Total/NA	Solid	8021B	98491
880-52554-16	CS-6 (2.0')	Total/NA	Solid	8021B	98491
880-52554-17	CS-7 (2.0')	Total/NA	Solid	8021B	98491
880-52554-18	CS-8 (2.0')	Total/NA	Solid	8021B	98491
880-52554-19	CS-9 (2.0')	Total/NA	Solid	8021B	98491
880-52554-20	CS-10 (2.0')	Total/NA	Solid	8021B	98491
MB 880-98434/5-A	Method Blank	Total/NA	Solid	8021B	98434
MB 880-98491/5-A	Method Blank	Total/NA	Solid	8021B	98491
LCS 880-98491/1-A	Lab Control Sample	Total/NA	Solid	8021B	98491
LCSD 880-98491/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98491
880-52554-1 MS	SW-1 (2.0')	Total/NA	Solid	8021B	98491
880-52554-1 MSD	SW-1 (2.0')	Total/NA	Solid	8021B	98491

Prep Batch: 98432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-98432/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 98433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-98433/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 98434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-98434/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 98491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-1	SW-1 (2.0')	Total/NA	Solid	5035	
880-52554-2	SW-2 (2.0')	Total/NA	Solid	5035	
880-52554-3	SW-3 (2.0')	Total/NA	Solid	5035	
880-52554-4	SW-4 (2.0')	Total/NA	Solid	5035	
880-52554-5	SW-5 (2.0')	Total/NA	Solid	5035	
880-52554-6	SW-6 (2.0')	Total/NA	Solid	5035	
880-52554-7	SW-7 (3.5')	Total/NA	Solid	5035	
880-52554-8	SW-8 (3.5')	Total/NA	Solid	5035	
880-52554-9	SW-9 (3.5')	Total/NA	Solid	5035	
880-52554-10	SW-10 (3.5')	Total/NA	Solid	5035	
880-52554-11	CS-1 (2.0')	Total/NA	Solid	5035	
880-52554-12	CS-2 (2.0')	Total/NA	Solid	5035	
880-52554-13	CS-3 (2.0')	Total/NA	Solid	5035	
880-52554-14	CS-4 (2.0')	Total/NA	Solid	5035	
880-52554-15	CS-5 (2.0')	Total/NA	Solid	5035	

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QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

GC VOA (Continued)

Prep Batch: 98491 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-16	CS-6 (2.0')	Total/NA	Solid	5035	
880-52554-17	CS-7 (2.0')	Total/NA	Solid	5035	
880-52554-18	CS-8 (2.0')	Total/NA	Solid	5035	
880-52554-19	CS-9 (2.0')	Total/NA	Solid	5035	
880-52554-20	CS-10 (2.0')	Total/NA	Solid	5035	
MB 880-98491/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98491/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98491/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52554-1 MS	SW-1 (2.0')	Total/NA	Solid	5035	
880-52554-1 MSD	SW-1 (2.0')	Total/NA	Solid	5035	

Prep Batch: 98493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-21	CS-11 (2.0')	Total/NA	Solid	5035	
880-52554-22	CS-12 (2.0')	Total/NA	Solid	5035	
880-52554-23	CS-13 (2.0')	Total/NA	Solid	5035	
880-52554-24	CS-14 (2.0')	Total/NA	Solid	5035	
880-52554-25	CS-15 (2.0')	Total/NA	Solid	5035	
880-52554-26	CS-16 (2.0')	Total/NA	Solid	5035	
880-52554-27	CS-17 (2.0')	Total/NA	Solid	5035	
880-52554-28	CS-18 (2.0')	Total/NA	Solid	5035	
880-52554-29	CS-19 (2.0')	Total/NA	Solid	5035	
880-52554-30	CS-20 (2.0')	Total/NA	Solid	5035	
880-52554-31	CS-21 (2.0')	Total/NA	Solid	5035	
880-52554-32	CS-22 (2.0')	Total/NA	Solid	5035	
880-52554-33	CS-23 (2.0')	Total/NA	Solid	5035	
880-52554-34	CS-24 (2.0')	Total/NA	Solid	5035	
880-52554-35	CS-25 (2.0')	Total/NA	Solid	5035	
880-52554-36	CS-26 (2.0')	Total/NA	Solid	5035	
880-52554-37	CS-27 (2.0')	Total/NA	Solid	5035	
880-52554-38	CS-28 (3.5')	Total/NA	Solid	5035	
880-52554-39	CS-29 (3.5')	Total/NA	Solid	5035	
880-52554-40	CS-30 (3.5')	Total/NA	Solid	5035	
MB 880-98493/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98493/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98493/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52554-21 MS	CS-11 (2.0')	Total/NA	Solid	5035	
880-52554-21 MSD	CS-11 (2.0')	Total/NA	Solid	5035	

Prep Batch: 98495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-41	CS-31 (3.5')	Total/NA	Solid	5035	
880-52554-42	CS-32 (3.5')	Total/NA	Solid	5035	
880-52554-43	CS-33 (3.5')	Total/NA	Solid	5035	
880-52554-44	CS-34 (3.5')	Total/NA	Solid	5035	
880-52554-45	CS-35 (3.5')	Total/NA	Solid	5035	
880-52554-46	CS-36 (3.5')	Total/NA	Solid	5035	
880-52554-47	CS-37 (3.5')	Total/NA	Solid	5035	
880-52554-48	CS-38 (3.5')	Total/NA	Solid	5035	
MB 880-98495/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98495/1-A	Lab Control Sample	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

GC VOA (Continued)

Prep Batch: 98495 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-98495/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52553-A-21-A MS	Matrix Spike	Total/NA	Solid	5035	
880-52553-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 98739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-1	SW-1 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-2	SW-2 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-3	SW-3 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-4	SW-4 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-5	SW-5 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-6	SW-6 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-7	SW-7 (3.5')	Total/NA	Solid	Total BTEX	
880-52554-8	SW-8 (3.5')	Total/NA	Solid	Total BTEX	
880-52554-9	SW-9 (3.5')	Total/NA	Solid	Total BTEX	
880-52554-10	SW-10 (3.5')	Total/NA	Solid	Total BTEX	
880-52554-11	CS-1 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-12	CS-2 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-13	CS-3 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-14	CS-4 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-15	CS-5 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-16	CS-6 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-17	CS-7 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-18	CS-8 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-19	CS-9 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-20	CS-10 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-21	CS-11 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-22	CS-12 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-23	CS-13 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-24	CS-14 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-25	CS-15 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-26	CS-16 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-27	CS-17 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-28	CS-18 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-29	CS-19 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-30	CS-20 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-31	CS-21 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-32	CS-22 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-33	CS-23 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-34	CS-24 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-35	CS-25 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-36	CS-26 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-37	CS-27 (2.0')	Total/NA	Solid	Total BTEX	
880-52554-38	CS-28 (3.5')	Total/NA	Solid	Total BTEX	
880-52554-39	CS-29 (3.5')	Total/NA	Solid	Total BTEX	
880-52554-40	CS-30 (3.5')	Total/NA	Solid	Total BTEX	
880-52554-41	CS-31 (3.5')	Total/NA	Solid	Total BTEX	
880-52554-42	CS-32 (3.5')	Total/NA	Solid	Total BTEX	
880-52554-43	CS-33 (3.5')	Total/NA	Solid	Total BTEX	
880-52554-44	CS-34 (3.5')	Total/NA	Solid	Total BTEX	
880-52554-45	CS-35 (3.5')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

GC VOA (Continued)

Analysis Batch: 98739 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-46	CS-36 (3.5')	Total/NA	Solid	Total BTEX	
880-52554-47	CS-37 (3.5')	Total/NA	Solid	Total BTEX	
880-52554-48	CS-38 (3.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 98593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-1	SW-1 (2.0')	Total/NA	Solid	8015B NM	98642
880-52554-2	SW-2 (2.0')	Total/NA	Solid	8015B NM	98642
880-52554-3	SW-3 (2.0')	Total/NA	Solid	8015B NM	98642
880-52554-4	SW-4 (2.0')	Total/NA	Solid	8015B NM	98642
880-52554-5	SW-5 (2.0')	Total/NA	Solid	8015B NM	98642
880-52554-6	SW-6 (2.0')	Total/NA	Solid	8015B NM	98642
880-52554-7	SW-7 (3.5')	Total/NA	Solid	8015B NM	98642
880-52554-8	SW-8 (3.5')	Total/NA	Solid	8015B NM	98642
880-52554-9	SW-9 (3.5')	Total/NA	Solid	8015B NM	98642
880-52554-10	SW-10 (3.5')	Total/NA	Solid	8015B NM	98642
880-52554-11	CS-1 (2.0')	Total/NA	Solid	8015B NM	98642
880-52554-12	CS-2 (2.0')	Total/NA	Solid	8015B NM	98642
880-52554-13	CS-3 (2.0')	Total/NA	Solid	8015B NM	98642
880-52554-14	CS-4 (2.0')	Total/NA	Solid	8015B NM	98642
880-52554-15	CS-5 (2.0')	Total/NA	Solid	8015B NM	98642
880-52554-16	CS-6 (2.0')	Total/NA	Solid	8015B NM	98642
880-52554-17	CS-7 (2.0')	Total/NA	Solid	8015B NM	98642
880-52554-18	CS-8 (2.0')	Total/NA	Solid	8015B NM	98642
880-52554-19	CS-9 (2.0')	Total/NA	Solid	8015B NM	98642
880-52554-20	CS-10 (2.0')	Total/NA	Solid	8015B NM	98642
880-52554-41	CS-31 (3.5')	Total/NA	Solid	8015B NM	98722
880-52554-42	CS-32 (3.5')	Total/NA	Solid	8015B NM	98722
880-52554-43	CS-33 (3.5')	Total/NA	Solid	8015B NM	98722
880-52554-44	CS-34 (3.5')	Total/NA	Solid	8015B NM	98722
880-52554-45	CS-35 (3.5')	Total/NA	Solid	8015B NM	98722
880-52554-46	CS-36 (3.5')	Total/NA	Solid	8015B NM	98722
880-52554-47	CS-37 (3.5')	Total/NA	Solid	8015B NM	98722
880-52554-48	CS-38 (3.5')	Total/NA	Solid	8015B NM	98722
MB 880-98642/1-A	Method Blank	Total/NA	Solid	8015B NM	98642
MB 880-98722/1-A	Method Blank	Total/NA	Solid	8015B NM	98722
LCS 880-98642/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98642
LCS 880-98722/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98722
LCSD 880-98642/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98642
LCSD 880-98722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98722
880-52553-A-21-F MS	Matrix Spike	Total/NA	Solid	8015B NM	98722
880-52553-A-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98722
880-52554-1 MS	SW-1 (2.0')	Total/NA	Solid	8015B NM	98642
880-52554-1 MSD	SW-1 (2.0')	Total/NA	Solid	8015B NM	98642

Analysis Batch: 98595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-21	CS-11 (2.0')	Total/NA	Solid	8015B NM	98732
880-52554-22	CS-12 (2.0')	Total/NA	Solid	8015B NM	98732

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 98595 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-23	CS-13 (2.0')	Total/NA	Solid	8015B NM	98732
880-52554-24	CS-14 (2.0')	Total/NA	Solid	8015B NM	98732
880-52554-25	CS-15 (2.0')	Total/NA	Solid	8015B NM	98732
880-52554-26	CS-16 (2.0')	Total/NA	Solid	8015B NM	98732
880-52554-27	CS-17 (2.0')	Total/NA	Solid	8015B NM	98732
880-52554-28	CS-18 (2.0')	Total/NA	Solid	8015B NM	98732
880-52554-29	CS-19 (2.0')	Total/NA	Solid	8015B NM	98732
MB 880-98732/1-A	Method Blank	Total/NA	Solid	8015B NM	98732
LCS 880-98732/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98732
LCSD 880-98732/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98732
880-52554-21 MS	CS-11 (2.0')	Total/NA	Solid	8015B NM	98732
880-52554-21 MSD	CS-11 (2.0')	Total/NA	Solid	8015B NM	98732

Analysis Batch: 98597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-30	CS-20 (2.0')	Total/NA	Solid	8015B NM	98732
880-52554-31	CS-21 (2.0')	Total/NA	Solid	8015B NM	98732
880-52554-32	CS-22 (2.0')	Total/NA	Solid	8015B NM	98732
880-52554-33	CS-23 (2.0')	Total/NA	Solid	8015B NM	98732
880-52554-34	CS-24 (2.0')	Total/NA	Solid	8015B NM	98732
880-52554-35	CS-25 (2.0')	Total/NA	Solid	8015B NM	98732
880-52554-36	CS-26 (2.0')	Total/NA	Solid	8015B NM	98732
880-52554-37	CS-27 (2.0')	Total/NA	Solid	8015B NM	98732
880-52554-38	CS-28 (3.5')	Total/NA	Solid	8015B NM	98732
880-52554-39	CS-29 (3.5')	Total/NA	Solid	8015B NM	98732
880-52554-40	CS-30 (3.5')	Total/NA	Solid	8015B NM	98732
MB 880-98732/1-A	Method Blank	Total/NA	Solid	8015B NM	98732
LCS 880-98732/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98732
LCSD 880-98732/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98732

Prep Batch: 98642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-1	SW-1 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-2	SW-2 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-3	SW-3 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-4	SW-4 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-5	SW-5 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-6	SW-6 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-7	SW-7 (3.5')	Total/NA	Solid	8015NM Prep	
880-52554-8	SW-8 (3.5')	Total/NA	Solid	8015NM Prep	
880-52554-9	SW-9 (3.5')	Total/NA	Solid	8015NM Prep	
880-52554-10	SW-10 (3.5')	Total/NA	Solid	8015NM Prep	
880-52554-11	CS-1 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-12	CS-2 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-13	CS-3 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-14	CS-4 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-15	CS-5 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-16	CS-6 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-17	CS-7 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-18	CS-8 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-19	CS-9 (2.0')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Prep Batch: 98642 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-20	CS-10 (2.0')	Total/NA	Solid	8015NM Prep	
MB 880-98642/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98642/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98642/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52554-1 MS	SW-1 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-1 MSD	SW-1 (2.0')	Total/NA	Solid	8015NM Prep	

Prep Batch: 98722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-41	CS-31 (3.5')	Total/NA	Solid	8015NM Prep	
880-52554-42	CS-32 (3.5')	Total/NA	Solid	8015NM Prep	
880-52554-43	CS-33 (3.5')	Total/NA	Solid	8015NM Prep	
880-52554-44	CS-34 (3.5')	Total/NA	Solid	8015NM Prep	
880-52554-45	CS-35 (3.5')	Total/NA	Solid	8015NM Prep	
880-52554-46	CS-36 (3.5')	Total/NA	Solid	8015NM Prep	
880-52554-47	CS-37 (3.5')	Total/NA	Solid	8015NM Prep	
880-52554-48	CS-38 (3.5')	Total/NA	Solid	8015NM Prep	
MB 880-98722/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98722/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52553-A-21-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-52553-A-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 98732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-21	CS-11 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-22	CS-12 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-23	CS-13 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-24	CS-14 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-25	CS-15 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-26	CS-16 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-27	CS-17 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-28	CS-18 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-29	CS-19 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-30	CS-20 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-31	CS-21 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-32	CS-22 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-33	CS-23 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-34	CS-24 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-35	CS-25 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-36	CS-26 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-37	CS-27 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-38	CS-28 (3.5')	Total/NA	Solid	8015NM Prep	
880-52554-39	CS-29 (3.5')	Total/NA	Solid	8015NM Prep	
880-52554-40	CS-30 (3.5')	Total/NA	Solid	8015NM Prep	
MB 880-98732/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98732/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98732/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52554-21 MS	CS-11 (2.0')	Total/NA	Solid	8015NM Prep	
880-52554-21 MSD	CS-11 (2.0')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

GC Semi VOA

Analysis Batch: 98791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-1	SW-1 (2.0')	Total/NA	Solid	8015 NM	
880-52554-2	SW-2 (2.0')	Total/NA	Solid	8015 NM	
880-52554-3	SW-3 (2.0')	Total/NA	Solid	8015 NM	
880-52554-4	SW-4 (2.0')	Total/NA	Solid	8015 NM	
880-52554-5	SW-5 (2.0')	Total/NA	Solid	8015 NM	
880-52554-6	SW-6 (2.0')	Total/NA	Solid	8015 NM	
880-52554-7	SW-7 (3.5')	Total/NA	Solid	8015 NM	
880-52554-8	SW-8 (3.5')	Total/NA	Solid	8015 NM	
880-52554-9	SW-9 (3.5')	Total/NA	Solid	8015 NM	
880-52554-10	SW-10 (3.5')	Total/NA	Solid	8015 NM	
880-52554-11	CS-1 (2.0')	Total/NA	Solid	8015 NM	
880-52554-12	CS-2 (2.0')	Total/NA	Solid	8015 NM	
880-52554-13	CS-3 (2.0')	Total/NA	Solid	8015 NM	
880-52554-14	CS-4 (2.0')	Total/NA	Solid	8015 NM	
880-52554-15	CS-5 (2.0')	Total/NA	Solid	8015 NM	
880-52554-16	CS-6 (2.0')	Total/NA	Solid	8015 NM	
880-52554-17	CS-7 (2.0')	Total/NA	Solid	8015 NM	
880-52554-18	CS-8 (2.0')	Total/NA	Solid	8015 NM	
880-52554-19	CS-9 (2.0')	Total/NA	Solid	8015 NM	
880-52554-20	CS-10 (2.0')	Total/NA	Solid	8015 NM	
880-52554-21	CS-11 (2.0')	Total/NA	Solid	8015 NM	
880-52554-22	CS-12 (2.0')	Total/NA	Solid	8015 NM	
880-52554-23	CS-13 (2.0')	Total/NA	Solid	8015 NM	
880-52554-24	CS-14 (2.0')	Total/NA	Solid	8015 NM	
880-52554-25	CS-15 (2.0')	Total/NA	Solid	8015 NM	
880-52554-26	CS-16 (2.0')	Total/NA	Solid	8015 NM	
880-52554-27	CS-17 (2.0')	Total/NA	Solid	8015 NM	
880-52554-28	CS-18 (2.0')	Total/NA	Solid	8015 NM	
880-52554-29	CS-19 (2.0')	Total/NA	Solid	8015 NM	
880-52554-30	CS-20 (2.0')	Total/NA	Solid	8015 NM	
880-52554-31	CS-21 (2.0')	Total/NA	Solid	8015 NM	
880-52554-32	CS-22 (2.0')	Total/NA	Solid	8015 NM	
880-52554-33	CS-23 (2.0')	Total/NA	Solid	8015 NM	
880-52554-34	CS-24 (2.0')	Total/NA	Solid	8015 NM	
880-52554-35	CS-25 (2.0')	Total/NA	Solid	8015 NM	
880-52554-36	CS-26 (2.0')	Total/NA	Solid	8015 NM	
880-52554-37	CS-27 (2.0')	Total/NA	Solid	8015 NM	
880-52554-38	CS-28 (3.5')	Total/NA	Solid	8015 NM	
880-52554-39	CS-29 (3.5')	Total/NA	Solid	8015 NM	
880-52554-40	CS-30 (3.5')	Total/NA	Solid	8015 NM	
880-52554-41	CS-31 (3.5')	Total/NA	Solid	8015 NM	
880-52554-42	CS-32 (3.5')	Total/NA	Solid	8015 NM	
880-52554-43	CS-33 (3.5')	Total/NA	Solid	8015 NM	
880-52554-44	CS-34 (3.5')	Total/NA	Solid	8015 NM	
880-52554-45	CS-35 (3.5')	Total/NA	Solid	8015 NM	
880-52554-46	CS-36 (3.5')	Total/NA	Solid	8015 NM	
880-52554-47	CS-37 (3.5')	Total/NA	Solid	8015 NM	
880-52554-48	CS-38 (3.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

HPLC/IC

Leach Batch: 98528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-1	SW-1 (2.0')	Soluble	Solid	DI Leach	
880-52554-2	SW-2 (2.0')	Soluble	Solid	DI Leach	
880-52554-3	SW-3 (2.0')	Soluble	Solid	DI Leach	
880-52554-4	SW-4 (2.0')	Soluble	Solid	DI Leach	
880-52554-5	SW-5 (2.0')	Soluble	Solid	DI Leach	
880-52554-6	SW-6 (2.0')	Soluble	Solid	DI Leach	
880-52554-7	SW-7 (3.5')	Soluble	Solid	DI Leach	
880-52554-8	SW-8 (3.5')	Soluble	Solid	DI Leach	
880-52554-9	SW-9 (3.5')	Soluble	Solid	DI Leach	
880-52554-10	SW-10 (3.5')	Soluble	Solid	DI Leach	
MB 880-98528/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98528/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98528/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52554-1 MS	SW-1 (2.0')	Soluble	Solid	DI Leach	
880-52554-1 MSD	SW-1 (2.0')	Soluble	Solid	DI Leach	

Analysis Batch: 98531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-1	SW-1 (2.0')	Soluble	Solid	300.0	98528
880-52554-2	SW-2 (2.0')	Soluble	Solid	300.0	98528
880-52554-3	SW-3 (2.0')	Soluble	Solid	300.0	98528
880-52554-4	SW-4 (2.0')	Soluble	Solid	300.0	98528
880-52554-5	SW-5 (2.0')	Soluble	Solid	300.0	98528
880-52554-6	SW-6 (2.0')	Soluble	Solid	300.0	98528
880-52554-7	SW-7 (3.5')	Soluble	Solid	300.0	98528
880-52554-8	SW-8 (3.5')	Soluble	Solid	300.0	98528
880-52554-9	SW-9 (3.5')	Soluble	Solid	300.0	98528
880-52554-10	SW-10 (3.5')	Soluble	Solid	300.0	98528
MB 880-98528/1-A	Method Blank	Soluble	Solid	300.0	98528
LCS 880-98528/2-A	Lab Control Sample	Soluble	Solid	300.0	98528
LCSD 880-98528/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98528
880-52554-1 MS	SW-1 (2.0')	Soluble	Solid	300.0	98528
880-52554-1 MSD	SW-1 (2.0')	Soluble	Solid	300.0	98528

Leach Batch: 98549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-11	CS-1 (2.0')	Soluble	Solid	DI Leach	
880-52554-12	CS-2 (2.0')	Soluble	Solid	DI Leach	
880-52554-13	CS-3 (2.0')	Soluble	Solid	DI Leach	
880-52554-14	CS-4 (2.0')	Soluble	Solid	DI Leach	
880-52554-15	CS-5 (2.0')	Soluble	Solid	DI Leach	
880-52554-16	CS-6 (2.0')	Soluble	Solid	DI Leach	
880-52554-17	CS-7 (2.0')	Soluble	Solid	DI Leach	
880-52554-18	CS-8 (2.0')	Soluble	Solid	DI Leach	
880-52554-19	CS-9 (2.0')	Soluble	Solid	DI Leach	
880-52554-20	CS-10 (2.0')	Soluble	Solid	DI Leach	
880-52554-21	CS-11 (2.0')	Soluble	Solid	DI Leach	
880-52554-22	CS-12 (2.0')	Soluble	Solid	DI Leach	
880-52554-23	CS-13 (2.0')	Soluble	Solid	DI Leach	
880-52554-24	CS-14 (2.0')	Soluble	Solid	DI Leach	
880-52554-25	CS-15 (2.0')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 98549 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-26	CS-16 (2.0')	Soluble	Solid	DI Leach	
880-52554-27	CS-17 (2.0')	Soluble	Solid	DI Leach	
880-52554-28	CS-18 (2.0')	Soluble	Solid	DI Leach	
880-52554-29	CS-19 (2.0')	Soluble	Solid	DI Leach	
880-52554-30	CS-20 (2.0')	Soluble	Solid	DI Leach	
MB 880-98549/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98549/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98549/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52554-11 MS	CS-1 (2.0')	Soluble	Solid	DI Leach	
880-52554-11 MSD	CS-1 (2.0')	Soluble	Solid	DI Leach	
880-52554-21 MS	CS-11 (2.0')	Soluble	Solid	DI Leach	
880-52554-21 MSD	CS-11 (2.0')	Soluble	Solid	DI Leach	

Leach Batch: 98550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-31	CS-21 (2.0')	Soluble	Solid	DI Leach	
880-52554-32	CS-22 (2.0')	Soluble	Solid	DI Leach	
880-52554-33	CS-23 (2.0')	Soluble	Solid	DI Leach	
880-52554-34	CS-24 (2.0')	Soluble	Solid	DI Leach	
880-52554-35	CS-25 (2.0')	Soluble	Solid	DI Leach	
880-52554-36	CS-26 (2.0')	Soluble	Solid	DI Leach	
880-52554-37	CS-27 (2.0')	Soluble	Solid	DI Leach	
880-52554-38	CS-28 (3.5')	Soluble	Solid	DI Leach	
880-52554-39	CS-29 (3.5')	Soluble	Solid	DI Leach	
880-52554-40	CS-30 (3.5')	Soluble	Solid	DI Leach	
880-52554-41	CS-31 (3.5')	Soluble	Solid	DI Leach	
880-52554-42	CS-32 (3.5')	Soluble	Solid	DI Leach	
880-52554-43	CS-33 (3.5')	Soluble	Solid	DI Leach	
880-52554-44	CS-34 (3.5')	Soluble	Solid	DI Leach	
880-52554-45	CS-35 (3.5')	Soluble	Solid	DI Leach	
880-52554-46	CS-36 (3.5')	Soluble	Solid	DI Leach	
880-52554-47	CS-37 (3.5')	Soluble	Solid	DI Leach	
880-52554-48	CS-38 (3.5')	Soluble	Solid	DI Leach	
MB 880-98550/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98550/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98550/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52554-31 MS	CS-21 (2.0')	Soluble	Solid	DI Leach	
880-52554-31 MSD	CS-21 (2.0')	Soluble	Solid	DI Leach	
880-52554-41 MS	CS-31 (3.5')	Soluble	Solid	DI Leach	
880-52554-41 MSD	CS-31 (3.5')	Soluble	Solid	DI Leach	

Analysis Batch: 98574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-11	CS-1 (2.0')	Soluble	Solid	300.0	98549
880-52554-12	CS-2 (2.0')	Soluble	Solid	300.0	98549
880-52554-13	CS-3 (2.0')	Soluble	Solid	300.0	98549
880-52554-14	CS-4 (2.0')	Soluble	Solid	300.0	98549
880-52554-15	CS-5 (2.0')	Soluble	Solid	300.0	98549
880-52554-16	CS-6 (2.0')	Soluble	Solid	300.0	98549
880-52554-17	CS-7 (2.0')	Soluble	Solid	300.0	98549
880-52554-18	CS-8 (2.0')	Soluble	Solid	300.0	98549

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Analysis Batch: 98574 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-19	CS-9 (2.0')	Soluble	Solid	300.0	98549
880-52554-20	CS-10 (2.0')	Soluble	Solid	300.0	98549
880-52554-21	CS-11 (2.0')	Soluble	Solid	300.0	98549
880-52554-22	CS-12 (2.0')	Soluble	Solid	300.0	98549
880-52554-23	CS-13 (2.0')	Soluble	Solid	300.0	98549
880-52554-24	CS-14 (2.0')	Soluble	Solid	300.0	98549
880-52554-25	CS-15 (2.0')	Soluble	Solid	300.0	98549
880-52554-26	CS-16 (2.0')	Soluble	Solid	300.0	98549
880-52554-27	CS-17 (2.0')	Soluble	Solid	300.0	98549
880-52554-28	CS-18 (2.0')	Soluble	Solid	300.0	98549
880-52554-29	CS-19 (2.0')	Soluble	Solid	300.0	98549
880-52554-30	CS-20 (2.0')	Soluble	Solid	300.0	98549
MB 880-98549/1-A	Method Blank	Soluble	Solid	300.0	98549
LCS 880-98549/2-A	Lab Control Sample	Soluble	Solid	300.0	98549
LCSD 880-98549/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98549
880-52554-11 MS	CS-1 (2.0')	Soluble	Solid	300.0	98549
880-52554-11 MSD	CS-1 (2.0')	Soluble	Solid	300.0	98549
880-52554-21 MS	CS-11 (2.0')	Soluble	Solid	300.0	98549
880-52554-21 MSD	CS-11 (2.0')	Soluble	Solid	300.0	98549

Analysis Batch: 98575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52554-31	CS-21 (2.0')	Soluble	Solid	300.0	98550
880-52554-32	CS-22 (2.0')	Soluble	Solid	300.0	98550
880-52554-33	CS-23 (2.0')	Soluble	Solid	300.0	98550
880-52554-34	CS-24 (2.0')	Soluble	Solid	300.0	98550
880-52554-35	CS-25 (2.0')	Soluble	Solid	300.0	98550
880-52554-36	CS-26 (2.0')	Soluble	Solid	300.0	98550
880-52554-37	CS-27 (2.0')	Soluble	Solid	300.0	98550
880-52554-38	CS-28 (3.5')	Soluble	Solid	300.0	98550
880-52554-39	CS-29 (3.5')	Soluble	Solid	300.0	98550
880-52554-40	CS-30 (3.5')	Soluble	Solid	300.0	98550
880-52554-41	CS-31 (3.5')	Soluble	Solid	300.0	98550
880-52554-42	CS-32 (3.5')	Soluble	Solid	300.0	98550
880-52554-43	CS-33 (3.5')	Soluble	Solid	300.0	98550
880-52554-44	CS-34 (3.5')	Soluble	Solid	300.0	98550
880-52554-45	CS-35 (3.5')	Soluble	Solid	300.0	98550
880-52554-46	CS-36 (3.5')	Soluble	Solid	300.0	98550
880-52554-47	CS-37 (3.5')	Soluble	Solid	300.0	98550
880-52554-48	CS-38 (3.5')	Soluble	Solid	300.0	98550
MB 880-98550/1-A	Method Blank	Soluble	Solid	300.0	98550
LCS 880-98550/2-A	Lab Control Sample	Soluble	Solid	300.0	98550
LCSD 880-98550/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98550
880-52554-31 MS	CS-21 (2.0')	Soluble	Solid	300.0	98550
880-52554-31 MSD	CS-21 (2.0')	Soluble	Solid	300.0	98550
880-52554-41 MS	CS-31 (3.5')	Soluble	Solid	300.0	98550
880-52554-41 MSD	CS-31 (3.5')	Soluble	Solid	300.0	98550

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: SW-1 (2.0')

Lab Sample ID: 880-52554-1

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/20/24 22:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/20/24 22:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 12:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 12:29	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98528	12/20/24 16:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98531	12/22/24 17:11	CH	EET MID

Client Sample ID: SW-2 (2.0')

Lab Sample ID: 880-52554-2

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/20/24 23:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/20/24 23:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 13:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 13:30	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	98528	12/20/24 16:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98531	12/22/24 17:28	CH	EET MID

Client Sample ID: SW-3 (2.0')

Lab Sample ID: 880-52554-3

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/20/24 23:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/20/24 23:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 13:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 13:51	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98528	12/20/24 16:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98531	12/22/24 17:34	CH	EET MID

Client Sample ID: SW-4 (2.0')

Lab Sample ID: 880-52554-4

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/20/24 23:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/20/24 23:53	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: SW-4 (2.0')

Lab Sample ID: 880-52554-4

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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			98791	12/23/24 14:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 14:11	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98528	12/20/24 16:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98531	12/22/24 17:52	CH	EET MID

Client Sample ID: SW-5 (2.0')

Lab Sample ID: 880-52554-5

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/21/24 00:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 00:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 14:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 14:32	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98528	12/20/24 16:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98531	12/22/24 17:58	CH	EET MID

Client Sample ID: SW-6 (2.0')

Lab Sample ID: 880-52554-6

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/21/24 00:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 00:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 14:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 14:52	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98528	12/20/24 16:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98531	12/22/24 18:04	CH	EET MID

Client Sample ID: SW-7 (3.5')

Lab Sample ID: 880-52554-7

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/21/24 00:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 00:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 15:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 15:42	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: SW-7 (3.5')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-7
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	98528	12/20/24 16:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98531	12/22/24 18:10	CH	EET MID

Client Sample ID: SW-8 (3.5')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-8
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			4.99 g	5 mL	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/21/24 01:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 01:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 16:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 16:02	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98528	12/20/24 16:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98531	12/22/24 18:16	CH	EET MID

Client Sample ID: SW-9 (3.5')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-9
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	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/21/24 01:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 01:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 16:23	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98528	12/20/24 16:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98531	12/22/24 18:22	CH	EET MID

Client Sample ID: SW-10 (3.5')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-10
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			5.01 g	5 mL	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/21/24 01:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 01:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 16:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 16:43	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98528	12/20/24 16:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98531	12/22/24 18:28	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-1 (2.0')

Lab Sample ID: 880-52554-11

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/21/24 03:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 03:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 17:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 17:24	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 09:24	CH	EET MID

Client Sample ID: CS-2 (2.0')

Lab Sample ID: 880-52554-12

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/21/24 03:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 03:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 17:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 17:45	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 09:45	CH	EET MID

Client Sample ID: CS-3 (2.0')

Lab Sample ID: 880-52554-13

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/21/24 04:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 04:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 18:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 18:05	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 09:52	CH	EET MID

Client Sample ID: CS-4 (2.0')

Lab Sample ID: 880-52554-14

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/21/24 04:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 04:34	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-4 (2.0')

Lab Sample ID: 880-52554-14

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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			98791	12/23/24 18:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 18:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 09:59	CH	EET MID

Client Sample ID: CS-5 (2.0')

Lab Sample ID: 880-52554-15

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/21/24 04:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 04:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 18:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 18:47	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 10:05	CH	EET MID

Client Sample ID: CS-6 (2.0')

Lab Sample ID: 880-52554-16

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/21/24 05:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 05:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 19:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 19:07	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 10:26	CH	EET MID

Client Sample ID: CS-7 (2.0')

Lab Sample ID: 880-52554-17

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/21/24 05:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 05:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 19:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 19:27	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-7 (2.0')

Lab Sample ID: 880-52554-17

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 10:33	CH	EET MID

Client Sample ID: CS-8 (2.0')

Lab Sample ID: 880-52554-18

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/21/24 05:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 05:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 19:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 19:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 10:40	CH	EET MID

Client Sample ID: CS-9 (2.0')

Lab Sample ID: 880-52554-19

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/21/24 06:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 06:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 20:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 20:09	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 10:46	CH	EET MID

Client Sample ID: CS-10 (2.0')

Lab Sample ID: 880-52554-20

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98491	12/20/24 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/21/24 06:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 06:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 20:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98642	12/23/24 10:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/23/24 20:29	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 10:53	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-11 (2.0')

Date Collected: 12/20/24 00:00

Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-21

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			5.02 g	5 mL	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/20/24 22:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/20/24 22:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 17:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98595	12/23/24 17:05	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 11:00	CH	EET MID

Client Sample ID: CS-12 (2.0')

Date Collected: 12/20/24 00:00

Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-22

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			4.95 g	5 mL	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/20/24 23:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/20/24 23:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 17:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98595	12/23/24 17:24	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 11:21	CH	EET MID

Client Sample ID: CS-13 (2.0')

Date Collected: 12/20/24 00:00

Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/20/24 23:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/20/24 23:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 17:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98595	12/23/24 17:44	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 11:28	CH	EET MID

Client Sample ID: CS-14 (2.0')

Date Collected: 12/20/24 00:00

Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-24

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			5.03 g	5 mL	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/20/24 23:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/20/24 23:46	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-14 (2.0')

Lab Sample ID: 880-52554-24

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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			98791	12/23/24 18:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98595	12/23/24 18:03	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 11:48	CH	EET MID

Client Sample ID: CS-15 (2.0')

Lab Sample ID: 880-52554-25

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/21/24 00:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 00:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 18:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98595	12/23/24 18:22	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 11:55	CH	EET MID

Client Sample ID: CS-16 (2.0')

Lab Sample ID: 880-52554-26

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/21/24 00:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 00:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 18:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98595	12/23/24 18:42	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 12:02	CH	EET MID

Client Sample ID: CS-17 (2.0')

Lab Sample ID: 880-52554-27

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/21/24 00:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 00:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 19:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98595	12/23/24 19:01	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-17 (2.0')

Date Collected: 12/20/24 00:00

Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 12:09	CH	EET MID

Client Sample ID: CS-18 (2.0')

Date Collected: 12/20/24 00:00

Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-28

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	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/21/24 01:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 01:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 19:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98595	12/23/24 19:21	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 12:15	CH	EET MID

Client Sample ID: CS-19 (2.0')

Date Collected: 12/20/24 00:00

Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/21/24 01:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 01:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 19:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98595	12/23/24 19:39	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 12:22	CH	EET MID

Client Sample ID: CS-20 (2.0')

Date Collected: 12/20/24 00:00

Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/21/24 01:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 01:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 16:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98597	12/23/24 16:46	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98549	12/21/24 14:04	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98574	12/23/24 12:29	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-21 (2.0')

Date Collected: 12/20/24 00:00

Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/21/24 03:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 03:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 17:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98597	12/23/24 17:05	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98550	12/21/24 14:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98575	12/23/24 10:00	CH	EET MID

Client Sample ID: CS-22 (2.0')

Date Collected: 12/20/24 00:00

Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-32

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/21/24 03:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 03:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 17:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98597	12/23/24 17:24	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98550	12/21/24 14:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98575	12/23/24 10:18	CH	EET MID

Client Sample ID: CS-23 (2.0')

Date Collected: 12/20/24 00:00

Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-33

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/21/24 04:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 04:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 17:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98597	12/23/24 17:44	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98550	12/21/24 14:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98575	12/23/24 10:24	CH	EET MID

Client Sample ID: CS-24 (2.0')

Date Collected: 12/20/24 00:00

Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-34

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/21/24 04:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 04:24	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-24 (2.0')

Lab Sample ID: 880-52554-34

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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			98791	12/23/24 18:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98597	12/23/24 18:03	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98550	12/21/24 14:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98575	12/23/24 10:30	CH	EET MID

Client Sample ID: CS-25 (2.0')

Lab Sample ID: 880-52554-35

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/21/24 04:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 04:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 18:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98597	12/23/24 18:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98550	12/21/24 14:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98575	12/23/24 10:36	CH	EET MID

Client Sample ID: CS-26 (2.0')

Lab Sample ID: 880-52554-36

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/21/24 05:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 05:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 18:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98597	12/23/24 18:42	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98550	12/21/24 14:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98575	12/23/24 10:53	CH	EET MID

Client Sample ID: CS-27 (2.0')

Lab Sample ID: 880-52554-37

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/21/24 05:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 05:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 19:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98597	12/23/24 19:01	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-27 (2.0')

Lab Sample ID: 880-52554-37

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	98550	12/21/24 14:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98575	12/23/24 10:59	CH	EET MID

Client Sample ID: CS-28 (3.5')

Lab Sample ID: 880-52554-38

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/21/24 05:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 05:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 19:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98597	12/23/24 19:21	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98550	12/21/24 14:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98575	12/23/24 11:05	CH	EET MID

Client Sample ID: CS-29 (3.5')

Lab Sample ID: 880-52554-39

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/21/24 06:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 06:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 19:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98597	12/23/24 19:39	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98550	12/21/24 14:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98575	12/23/24 11:11	CH	EET MID

Client Sample ID: CS-30 (3.5')

Lab Sample ID: 880-52554-40

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98493	12/20/24 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/21/24 06:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 06:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/23/24 19:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98732	12/23/24 15:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98597	12/23/24 19:58	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98550	12/21/24 14:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98575	12/23/24 11:17	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-31 (3.5')

Lab Sample ID: 880-52554-41

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98495	12/20/24 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98350	12/21/24 00:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 00:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/24/24 01:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98722	12/23/24 15:07	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/24/24 01:38	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98550	12/21/24 14:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98575	12/23/24 11:23	CH	EET MID

Client Sample ID: CS-32 (3.5')

Lab Sample ID: 880-52554-42

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98495	12/20/24 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98350	12/21/24 01:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 01:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/24/24 01:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98722	12/23/24 15:07	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/24/24 01:58	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98550	12/21/24 14:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98575	12/23/24 11:41	CH	EET MID

Client Sample ID: CS-33 (3.5')

Lab Sample ID: 880-52554-43

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98495	12/20/24 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98350	12/21/24 02:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 02:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/24/24 02:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98722	12/23/24 15:07	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/24/24 02:40	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	98550	12/21/24 14:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98575	12/23/24 11:47	CH	EET MID

Client Sample ID: CS-34 (3.5')

Lab Sample ID: 880-52554-44

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98495	12/20/24 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98350	12/21/24 02:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 02:56	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-34 (3.5')

Lab Sample ID: 880-52554-44

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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			98791	12/24/24 03:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98722	12/23/24 15:07	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/24/24 03:00	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98550	12/21/24 14:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98575	12/23/24 12:04	CH	EET MID

Client Sample ID: CS-35 (3.5')

Lab Sample ID: 880-52554-45

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98495	12/20/24 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98350	12/21/24 03:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 03:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/24/24 03:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98722	12/23/24 15:07	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/24/24 03:20	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98550	12/21/24 14:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98575	12/23/24 12:10	CH	EET MID

Client Sample ID: CS-36 (3.5')

Lab Sample ID: 880-52554-46

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98495	12/20/24 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98350	12/21/24 03:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 03:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/24/24 03:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98722	12/23/24 15:07	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/24/24 03:41	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98550	12/21/24 14:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98575	12/23/24 12:16	CH	EET MID

Client Sample ID: CS-37 (3.5')

Lab Sample ID: 880-52554-47

Date Collected: 12/20/24 00:00

Matrix: Solid

Date Received: 12/20/24 13:42

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	98495	12/20/24 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98350	12/21/24 03:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 03:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/24/24 04:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98722	12/23/24 15:07	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/24/24 04:02	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Client Sample ID: CS-37 (3.5')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-47
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	98550	12/21/24 14:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98575	12/23/24 12:22	CH	EET MID

Client Sample ID: CS-38 (3.5')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52554-48
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	98495	12/20/24 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98350	12/21/24 04:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98739	12/21/24 04:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			98791	12/24/24 04:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98722	12/23/24 15:07	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98593	12/24/24 04:29	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98550	12/21/24 14:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98575	12/23/24 12:28	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy 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	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
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: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy 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	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52554-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52554-1	SW-1 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-2	SW-2 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-3	SW-3 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-4	SW-4 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-5	SW-5 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-6	SW-6 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-7	SW-7 (3.5')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-8	SW-8 (3.5')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-9	SW-9 (3.5')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-10	SW-10 (3.5')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-11	CS-1 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-12	CS-2 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-13	CS-3 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-14	CS-4 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-15	CS-5 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-16	CS-6 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-17	CS-7 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-18	CS-8 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-19	CS-9 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-20	CS-10 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-21	CS-11 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-22	CS-12 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-23	CS-13 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-24	CS-14 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-25	CS-15 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-26	CS-16 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-27	CS-17 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-28	CS-18 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-29	CS-19 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-30	CS-20 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-31	CS-21 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-32	CS-22 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-33	CS-23 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-34	CS-24 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-35	CS-25 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-36	CS-26 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-37	CS-27 (2.0')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-38	CS-28 (3.5')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-39	CS-29 (3.5')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-40	CS-30 (3.5')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-41	CS-31 (3.5')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-42	CS-32 (3.5')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-43	CS-33 (3.5')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-44	CS-34 (3.5')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-45	CS-35 (3.5')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-46	CS-36 (3.5')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-47	CS-37 (3.5')	Solid	12/20/24 00:00	12/20/24 13:42
880-52554-48	CS-38 (3.5')	Solid	12/20/24 00:00	12/20/24 13:42

Chain of Custody



880-52554 Chain of Custody

Page 1 of 5

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marientfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com ashton.thielke@coterra.com

Work Order Comments	
Program: UST/ST ☐ PRP ☐ Brownfields ☐ RRC ☐ perfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

ANALYSIS REQUEST										Preservative Codes		
Project Name:	Bonnie 35 Federal Com #4H		Turn Around		Para. Code							
Project Number:	2084		☐ Routine	☒ Rush								
Project Location	Eddy Co, NM		Due Date:									
Sampler's Name:	CMM		48 Hrs									
PO #:												
SAMPLE RECEIPT Received Intact: Yes ☒ No ☐ Temp Blank: Yes ☒ No ☐ Wet Ice: Yes ☒ No ☐ Cooler Custody Seals: Yes ☒ No ☐ Thermometer ID: ☒ Correction Factor: ☒ Sample Custody Seals: Yes ☒ No ☐ Temperature Reading: ☒ Corrected Temperature: ☒ Total Containers: ☒												
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont						Sample Comments
SW-1 (2.0')	12/20/2024		X		Comp 1	1	BTX 80218					
SW-2 (2.0')	12/20/2024		X		Comp 1	1	TPH 8015M (GRO + DRO + MRO)					
SW-3 (2.0')	12/20/2024		X		Comp 1	1	Chloride 300.0					
SW-4 (2.0')	12/20/2024		X		Comp 1	1						
SW-5 (2.0')	12/20/2024		X		Comp 1	1						
SW-6 (2.0')	12/20/2024		X		Comp 1	1						
SW-7 (3.5')	12/20/2024		X		Comp 1	1						
SW-8 (3.5')	12/20/2024		X		Comp 1	1						
SW-9 (3.5')	12/20/2024		X		Comp 1	1						
SW-10 (3.5')	12/20/2024		X		Comp 1	1						

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Laci Luig</i>	12-20-24	<i>Ashton Thielke</i>	12/20/24

Chain of Custody

Work Order No: SS4

Page 2 of 5

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marientfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com ashton.thielke@coterra.com

Work Order Comments	
Program: ☐ UST/PST ☐ PRP ☐ Ironfields ☐ IRC ☐ perfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

Project Name:		Turn Around		ANALYSIS REQUEST		Preservative Codes	
Project Number:	Bonnie 35 Federal Com #4H	☐ Routine ☒ Rush	48 Hrs			None: NO DI Water: H ₂ O	
Project Location:	Eddy Co, NM	Due Date:				Cool: Cool MeOH: Me	
Sampler's Name:	CMIM					HCL: HC HNO ₃ : HN	
PO #:						H ₂ SO ₄ : H ₂ NaOH: Na	
SAMPLE RECEIPT		Temp Blank:		Parameters		H ₃ PO ₄ : HP	
Received Intact:	Yes No	Wet Ice:	Yes No			NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes No N/A	Thermometer ID:				Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes No N/A	Correction Factor:				Zn Acetate+NaOH: Zn	
Total Containers:		Temperature Reading:				NaOH+Ascorbic Acid: SAPC	
		Corrected Temperature:					
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Sample Comments
CS-1 (2.0')	12/20/2024		X		Comp 1	1	
CS-2 (2.0')	12/20/2024		X		Comp 1	1	
CS-3 (2.0')	12/20/2024		X		Comp 1	1	
CS-4 (2.0')	12/20/2024		X		Comp 1	1	
CS-5 (2.0')	12/20/2024		X		Comp 1	1	
CS-6 (2.0')	12/20/2024		X		Comp 1	1	
CS-7 (2.0')	12/20/2024		X		Comp 1	1	
CS-8 (2.0')	12/20/2024		X		Comp 1	1	
CS-9 (2.0')	12/20/2024		X		Comp 1	1	
CS-10 (2.0')	12/20/2024		X		Comp 1	1	

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Cole Munday</i>	12-20-24	<i>[Signature]</i>	

Chain of Custody

Work Order No: SS4

Page 3 of 5

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marientfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coteria.com ashton.thielke@coteria.com

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

ANALYSIS REQUEST									
Project Name:	Project Number:	Project Location	Sampler's Name:	PO #:	Turn Around				Pres. Code
					☐ Routine	☒ Rush	Due Date:	48 Hrs	
Bonnie 35 Federal Com #4H	2084	Eddy Co, NM	CMM						
SAMPLE RECEIPT Received Intact: Yes No Temp Blank: Yes No Wet Ice: Yes No Cooler Custody Seals: Yes No N/A Thermometer ID: Sample Custody Seals: Yes No N/A Correction Factor: Total Containers: Temperature Reading: Corrected Temperature:									
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters		
CS-11 (2.0')	12/20/2024		X		Comp 1	1	BTX 80218		
CS-12 (2.0')	12/20/2024		X		Comp 1	1	TPH 8015M (GRO + DRO + MRO)		
CS-13 (2.0')	12/20/2024		X		Comp 1	1	Chloride 300.0		
CS-14 (2.0')	12/20/2024		X		Comp 1	1			
CS-15 (2.0')	12/20/2024		X		Comp 1	1			
CS-16 (2.0')	12/20/2024		X		Comp 1	1			
CS-17 (2.0')	12/20/2024		X		Comp 1	1			
CS-18 (2.0')	12/20/2024		X		Comp 1	1			
CS-19 (2.0')	12/20/2024		X		Comp 1	1			
CS-20 (2.0')	12/20/2024		X		Comp 1	1			

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Colo Muehling</i>	12-20-24	<i>[Signature]</i>	

Chain of Custody

Work Order No: SS4

Page 4 of 5

Project Manager:	Ashton Thielke	Bill to: (if different)	Ladi Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marientfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	ladi.luig@coterra.com ashton.thielke@coterra.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Ironfields ☐ JRC ☐ perfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:		Turn Around		ANALYSIS REQUEST		Preservative Codes	
Project Number:	Bonnie 35 Federal Com #4H	☐ Routine	☒ Rush				None: NO DI Water: H ₂ O
Project Location	Eddy Co, NM	Due Date:	48 Hrs				Cool: Cool MeOH: Me
Sampler's Name:	CMM						HCL: HC HNO ₃ : HN
PO #:							H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT		Temp Blank:		Parameters		H ₃ PO ₄ : HP	
Received Intact:	Yes No	Thermometer ID:	Yes No	Grab/Comp	Water	NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	Yes No			Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	Corrected Temperature:			Zn Acetate+ NaOH: Zn	
Total Containers:						NaOH+Ascorbic Acid: SAPC	
Sample Identification	Date	Time	Soil	Water		Sample Comments	
CS-21 (2.0')	12/20/2024		X	Comp 1	X		
CS-22 (2.0')	12/20/2024		X	Comp 1	X		
CS-23 (2.0')	12/20/2024		X	Comp 1	X		
CS-24 (2.0')	12/20/2024		X	Comp 1	X		
CS-25 (2.0')	12/20/2024		X	Comp 1	X		
CS-26 (2.0')	12/20/2024		X	Comp 1	X		
CS-27 (2.0')	12/20/2024		X	Comp 1	X		
CS-28 (3.5')	12/20/2024		X	Comp 1	X		
CS-29 (3.5')	12/20/2024		X	Comp 1	X		
CS-30 (3.5')	12/20/2024		X	Comp 1	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Cale M... ..</i>	12-20-24	<i>[Signature]</i>	

Chain of Custody

Work Order No: 559

Page 5 of 5

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com ashton.thielke@coterra.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Rowfields ☐ IRC ☐ perfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

ANALYSIS REQUEST										Preservative Codes	
Project Name:	Project Number:	Project Location	Sampler's Name:	PO #:	Turn Around			Pres. Code	# of Cont	Sample Comments	
					☐ Routine	☒ Rush	Due Date:				
Bonnie 35 Federal Com #4H	2084	Eddy Co., NM	CMM				48 Hrs				
Temp Blank:					Yes	No	Wet 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:					Yes	No	Corrected Temperature:				
Sample Identification	Date	Time	Soil	Water	Grab/Comp	Water	Soil	Time	Date	Time	
CS-31 (3.5')	12/20/2024		X		Comp						
CS-32 (3.5')	12/20/2024		X		Comp						
CS-33 (3.5')	12/20/2024		X		Comp						
CS-34 (3.5')	12/20/2024		X		Comp						
CS-35 (3.5')	12/20/2024		X		Comp						
CS-36 (3.5')	12/20/2024		X		Comp						
CS-37 (3.5')	12/20/2024		X		Comp						
CS-38 (3.5')	12/20/2024		X		Comp						
BTEX 8021B											
TPH 8015M (GRO + DRO + MRO)											
Chloride 300.0											
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+Ascorbic Acid: SAPC											

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Carle Mowbray</i>	12-20-24	<i>[Signature]</i>	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52554-1

SDG Number: Eddy Co, NM

Login Number: 52554

List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/8/2025 8:40:37 AM Revision 1

JOB DESCRIPTION

Bonnie 35 Federal Com #4H
Eddy Co, NM

JOB NUMBER

880-52702-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



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

Generated
1/8/2025 8:40:37 AM
Revision 1

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Laboratory Job ID: 880-52702-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1

Job ID: 880-52702-1

Eurofins Midland

Job Narrative
880-52702-1

REVISION

The report being provided is a revision of the original report sent on 1/2/2025. The report (revision 1) is being revised due to Per client email, requesting sample date be corrected to 12/31.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 12/31/2024 8:55 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 -2.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-11 (2.25') (880-52702-1), CS-15 (2.25') (880-52702-2), CS-16 (2.25') (880-52702-3), CS-19 (2.25') (880-52702-4), CS-20 (2.25') (880-52702-5), CS-23 (2.25') (880-52702-6), CS-24 (2.25') (880-52702-7) and SW-2 (2.0') (880-52702-8).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99161 and analytical batch 880-99162 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 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: CS-15 (2.25') (880-52702-2), CS-16 (2.25') (880-52702-3), CS-19 (2.25') (880-52702-4), CS-20 (2.25') (880-52702-5), (890-7523-A-1-F) and (890-7523-A-1-H MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: CS-11 (2.25') (880-52702-1), (LCS 880-99158/2-A), (880-52702-A-1-C MS) and (880-52702-A-1-D MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99158 and analytical batch 880-99168 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 duplicate (LCSD) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-99124/2-A) and (LCSD 880-99124/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99124 and analytical batch 880-99164 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.

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Case Narrative

Client: Carmona Resources
Project: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1

Job ID: 880-52702-1 (Continued) Eurofins Midland

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99160 and analytical batch 880-99181 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

Client Sample ID: CS-11 (2.25')

Lab Sample ID: 880-52702-1

Date Collected: 12/31/24 00:00

Matrix: Solid

Date Received: 12/31/24 08:55

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		12/31/24 10:33	12/31/24 13:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/31/24 10:33	12/31/24 13:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/31/24 10:33	12/31/24 13:57	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/31/24 10:33	12/31/24 13:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/31/24 10:33	12/31/24 13:57	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/31/24 10:33	12/31/24 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/31/24 10:33	12/31/24 13:57	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/31/24 10:33	12/31/24 13:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/31/24 13:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 11:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		12/31/24 09:50	12/31/24 11:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		12/31/24 09:50	12/31/24 11:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 11:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	61	S1-	70 - 130	12/31/24 09:50	12/31/24 11:39	1
o-Terphenyl	59	S1-	70 - 130	12/31/24 09:50	12/31/24 11:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	239		10.0		mg/Kg			12/31/24 13:10	1

Client Sample ID: CS-15 (2.25')

Lab Sample ID: 880-52702-2

Date Collected: 12/31/24 00:00

Matrix: Solid

Date Received: 12/31/24 08:55

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		12/31/24 10:33	12/31/24 14:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 10:33	12/31/24 14:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 10:33	12/31/24 14:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 10:33	12/31/24 14:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 10:33	12/31/24 14:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 10:33	12/31/24 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	12/31/24 10:33	12/31/24 14:17	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/31/24 10:33	12/31/24 14:17	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

Client Sample ID: CS-15 (2.25')

Lab Sample ID: 880-52702-2

Date Collected: 12/31/24 00:00

Matrix: Solid

Date Received: 12/31/24 08:55

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			12/31/24 14:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			12/31/24 13:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		12/31/24 10:45	12/31/24 13:57	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		12/31/24 10:45	12/31/24 13:57	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		12/31/24 10:45	12/31/24 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	60	S1-	70 - 130				12/31/24 10:45	12/31/24 13:57	1
o-Terphenyl	57	S1-	70 - 130				12/31/24 10:45	12/31/24 13:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	211		9.98		mg/Kg			12/31/24 13:16	1

Client Sample ID: CS-16 (2.25')

Lab Sample ID: 880-52702-3

Date Collected: 12/31/24 00:00

Matrix: Solid

Date Received: 12/31/24 08:55

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		12/31/24 10:33	12/31/24 14:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 10:33	12/31/24 14:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 10:33	12/31/24 14:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 10:33	12/31/24 14:38	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 10:33	12/31/24 14:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 10:33	12/31/24 14:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				12/31/24 10:33	12/31/24 14:38	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/31/24 10:33	12/31/24 14:38	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			12/31/24 14:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			12/31/24 14:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		12/31/24 10:45	12/31/24 14:13	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		12/31/24 10:45	12/31/24 14:13	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

Client Sample ID: CS-16 (2.25')

Date Collected: 12/31/24 00:00

Date Received: 12/31/24 08:55

Lab Sample ID: 880-52702-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		12/31/24 10:45	12/31/24 14:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130				12/31/24 10:45	12/31/24 14:13	1
o-Terphenyl	59	S1-	70 - 130				12/31/24 10:45	12/31/24 14:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	198		9.98		mg/Kg			12/31/24 13:21	1

Client Sample ID: CS-19 (2.25')

Date Collected: 12/31/24 00:00

Date Received: 12/31/24 08:55

Lab Sample ID: 880-52702-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 10:33	12/31/24 14:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 10:33	12/31/24 14:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 10:33	12/31/24 14:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 10:33	12/31/24 14:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 10:33	12/31/24 14:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 10:33	12/31/24 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				12/31/24 10:33	12/31/24 14:58	1
1,4-Difluorobenzene (Surr)	105		70 - 130				12/31/24 10:33	12/31/24 14:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 14:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/31/24 10:45	12/31/24 14:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/31/24 10:45	12/31/24 14:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/31/24 10:45	12/31/24 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	58	S1-	70 - 130				12/31/24 10:45	12/31/24 14:29	1
o-Terphenyl	59	S1-	70 - 130				12/31/24 10:45	12/31/24 14:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.4		9.96		mg/Kg			12/31/24 13:27	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

Client Sample ID: CS-20 (2.25')

Lab Sample ID: 880-52702-5

Date Collected: 12/31/24 00:00

Matrix: Solid

Date Received: 12/31/24 08:55

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		12/31/24 10:33	12/31/24 16:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 10:33	12/31/24 16:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 10:33	12/31/24 16:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 10:33	12/31/24 16:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 10:33	12/31/24 16:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 10:33	12/31/24 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/31/24 10:33	12/31/24 16:32	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/31/24 10:33	12/31/24 16:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 16:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/31/24 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/31/24 10:45	12/31/24 14:45	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/31/24 10:45	12/31/24 14:45	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/31/24 10:45	12/31/24 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	61	S1-	70 - 130	12/31/24 10:45	12/31/24 14:45	1
o-Terphenyl	61	S1-	70 - 130	12/31/24 10:45	12/31/24 14:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		9.92		mg/Kg			12/31/24 13:44	1

Client Sample ID: CS-23 (2.25')

Lab Sample ID: 880-52702-6

Date Collected: 12/31/24 00:00

Matrix: Solid

Date Received: 12/31/24 08:55

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		12/31/24 10:33	12/31/24 16:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 10:33	12/31/24 16:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 10:33	12/31/24 16:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 10:33	12/31/24 16:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 10:33	12/31/24 16:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 10:33	12/31/24 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/31/24 10:33	12/31/24 16:53	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/31/24 10:33	12/31/24 16:53	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

Client Sample ID: CS-23 (2.25')

Lab Sample ID: 880-52702-6

Date Collected: 12/31/24 00:00

Matrix: Solid

Date Received: 12/31/24 08:55

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			12/31/24 16:53	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			12/31/24 14:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/30/24 19:16	12/31/24 14:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/30/24 19:16	12/31/24 14:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/30/24 19:16	12/31/24 14:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				12/30/24 19:16	12/31/24 14:13	1
o-Terphenyl	90		70 - 130				12/30/24 19:16	12/31/24 14:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		10.0		mg/Kg			12/31/24 13:50	1

Client Sample ID: CS-24 (2.25')

Lab Sample ID: 880-52702-7

Date Collected: 12/31/24 00:00

Matrix: Solid

Date Received: 12/31/24 08:55

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		12/31/24 10:33	12/31/24 17:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 10:33	12/31/24 17:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 10:33	12/31/24 17:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 10:33	12/31/24 17:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 10:33	12/31/24 17:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 10:33	12/31/24 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				12/31/24 10:33	12/31/24 17:13	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/31/24 10:33	12/31/24 17:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 17:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 14:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:16	12/31/24 14:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:16	12/31/24 14:29	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

Client Sample ID: CS-24 (2.25')

Date Collected: 12/31/24 00:00

Date Received: 12/31/24 08:55

Lab Sample ID: 880-52702-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:16	12/31/24 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				12/30/24 19:16	12/31/24 14:29	1
o-Terphenyl	87		70 - 130				12/30/24 19:16	12/31/24 14:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.4		9.94		mg/Kg			12/31/24 13:56	1

Client Sample ID: SW-2 (2.0')

Date Collected: 12/31/24 00:00

Date Received: 12/31/24 08:55

Lab Sample ID: 880-52702-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/31/24 10:33	12/31/24 17:34	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/31/24 10:33	12/31/24 17:34	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/31/24 10:33	12/31/24 17:34	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		12/31/24 10:33	12/31/24 17:34	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/31/24 10:33	12/31/24 17:34	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/31/24 10:33	12/31/24 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				12/31/24 10:33	12/31/24 17:34	1
1,4-Difluorobenzene (Surr)	105		70 - 130				12/31/24 10:33	12/31/24 17:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			12/31/24 17:34	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			12/31/24 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/30/24 19:16	12/31/24 14:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:16	12/31/24 14:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:16	12/31/24 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				12/30/24 19:16	12/31/24 14:45	1
o-Terphenyl	91		70 - 130				12/30/24 19:16	12/31/24 14:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	243		9.90		mg/Kg			12/31/24 14:01	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

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)
880-52702-1	CS-11 (2.25')	114	106
880-52702-2	CS-15 (2.25')	113	106
880-52702-3	CS-16 (2.25')	115	107
880-52702-4	CS-19 (2.25')	112	105
880-52702-5	CS-20 (2.25')	115	107
880-52702-6	CS-23 (2.25')	114	106
880-52702-7	CS-24 (2.25')	112	107
880-52702-8	SW-2 (2.0')	113	105
890-7521-A-19-C MS	Matrix Spike	110	105
890-7521-A-19-D MSD	Matrix Spike Duplicate	114	103
LCS 880-99147/1-A	Lab Control Sample	110	104
LCSD 880-99147/2-A	Lab Control Sample Dup	113	103
MB 880-99147/5-A	Method Blank	112	100
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)
880-52702-1	CS-11 (2.25')	61 S1-	59 S1-
880-52702-1 MS	CS-11 (2.25')	62 S1-	58 S1-
880-52702-1 MSD	CS-11 (2.25')	65 S1-	59 S1-
880-52702-2	CS-15 (2.25')	60 S1-	57 S1-
880-52702-3	CS-16 (2.25')	62 S1-	59 S1-
880-52702-4	CS-19 (2.25')	58 S1-	59 S1-
880-52702-5	CS-20 (2.25')	61 S1-	61 S1-
880-52702-6	CS-23 (2.25')	84	90
880-52702-7	CS-24 (2.25')	81	87
880-52702-8	SW-2 (2.0')	91	91
890-7521-A-1-B MS	Matrix Spike	94	101
890-7521-A-1-C MSD	Matrix Spike Duplicate	85	90
890-7523-A-1-G MS	Matrix Spike	81	72
890-7523-A-1-H MSD	Matrix Spike Duplicate	67 S1-	69 S1-
LCS 880-99124/2-A	Lab Control Sample	124	134 S1+
LCS 880-99158/2-A	Lab Control Sample	149 S1+	131 S1+
LCS 880-99161/2-A	Lab Control Sample	97	99
LCSD 880-99124/3-A	Lab Control Sample Dup	128	137 S1+
LCSD 880-99158/3-A	Lab Control Sample Dup	125	108
LCSD 880-99161/3-A	Lab Control Sample Dup	99	101
MB 880-99124/1-A	Method Blank	122	125
MB 880-99158/1-A	Method Blank	88	97
MB 880-99161/1-A	Method Blank	81	77
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99147/5-A

Matrix: Solid

Analysis Batch: 99142

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99147

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:44	12/31/24 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:44	12/31/24 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:44	12/31/24 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/31/24 08:44	12/31/24 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:44	12/31/24 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/31/24 08:44	12/31/24 11:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	12/31/24 08:44	12/31/24 11:33	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/31/24 08:44	12/31/24 11:33	1

Lab Sample ID: LCS 880-99147/1-A

Matrix: Solid

Analysis Batch: 99142

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09803		mg/Kg		98	70 - 130
Toluene	0.100	0.09820		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09914		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2029		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1050		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-99147/2-A

Matrix: Solid

Analysis Batch: 99142

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99147

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1013		mg/Kg		101	70 - 130	3	35
Toluene	0.100	0.1018		mg/Kg		102	70 - 130	4	35
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2085		mg/Kg		104	70 - 130	3	35
o-Xylene	0.100	0.1075		mg/Kg		107	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-7521-A-19-C MS

Matrix: Solid

Analysis Batch: 99142

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 99147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09686		mg/Kg		97	70 - 130
Toluene	<0.00200	U	0.100	0.09638		mg/Kg		96	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-7521-A-19-C MS

Matrix: Solid

Analysis Batch: 99142

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 99147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09625		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1962		mg/Kg		98	70 - 130
o-Xylene	<0.00200	U	0.100	0.1008		mg/Kg		101	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-7521-A-19-D MSD

Matrix: Solid

Analysis Batch: 99142

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 99147

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.09383		mg/Kg		94	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.09370		mg/Kg		94	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.09351		mg/Kg		94	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1902		mg/Kg		95	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.09798		mg/Kg		98	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-99124/1-A

Matrix: Solid

Analysis Batch: 99164

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99124

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		12/30/24 19:16	12/31/24 08:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:16	12/31/24 08:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:16	12/31/24 08:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	12/30/24 19:16	12/31/24 08:42	1
o-Terphenyl	125		70 - 130	12/30/24 19:16	12/31/24 08:42	1

Lab Sample ID: LCS 880-99124/2-A

Matrix: Solid

Analysis Batch: 99164

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99124

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	1198		mg/Kg		120	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-99124/2-A

Matrix: Solid

Analysis Batch: 99164

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99124

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	134	S1+	70 - 130

Lab Sample ID: LCSD 880-99124/3-A

Matrix: Solid

Analysis Batch: 99164

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99124

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1175		mg/Kg		117	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1190		mg/Kg		119	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	137	S1+	70 - 130

Lab Sample ID: 890-7521-A-1-B MS

Matrix: Solid

Analysis Batch: 99164

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 99124

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	996	650.2	F1	mg/Kg		65	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	787.9		mg/Kg		79	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: 890-7521-A-1-C MSD

Matrix: Solid

Analysis Batch: 99164

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 99124

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	996	585.0	F1	mg/Kg		59	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	689.4	F1	mg/Kg		69	70 - 130	13	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	90		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-99158/1-A

Matrix: Solid

Analysis Batch: 99168

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99158

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		12/31/24 09:49	12/31/24 09:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/31/24 09:49	12/31/24 09:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/31/24 09:49	12/31/24 09:55	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				12/31/24 09:49	12/31/24 09:55	1
o-Terphenyl	97		70 - 130				12/31/24 09:49	12/31/24 09:55	1

Lab Sample ID: LCS 880-99158/2-A

Matrix: Solid

Analysis Batch: 99168

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99158

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1237		mg/Kg		124	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1302		mg/Kg		130	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane	149	S1+	70 - 130					
o-Terphenyl	131	S1+	70 - 130					

Lab Sample ID: LCSD 880-99158/3-A

Matrix: Solid

Analysis Batch: 99168

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99158

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1007		mg/Kg		101	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	1000	1063		mg/Kg		106	70 - 130	20	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	125		70 - 130						
o-Terphenyl	108		70 - 130						

Lab Sample ID: 880-52702-1 MS

Matrix: Solid

Analysis Batch: 99168

Client Sample ID: CS-11 (2.25')

Prep Type: Total/NA

Prep Batch: 99158

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	465.6	F1	mg/Kg		47	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	564.2	F1	mg/Kg		57	70 - 130	

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QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-52702-1 MS

Matrix: Solid

Analysis Batch: 99168

Client Sample ID: CS-11 (2.25')

Prep Type: Total/NA

Prep Batch: 99158

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	62	S1-	70 - 130
o-Terphenyl	58	S1-	70 - 130

Lab Sample ID: 880-52702-1 MSD

Matrix: Solid

Analysis Batch: 99168

Client Sample ID: CS-11 (2.25')

Prep Type: Total/NA

Prep Batch: 99158

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	504.2	F1	mg/Kg		51	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	549.6	F1	mg/Kg		55	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	65	S1-	70 - 130
o-Terphenyl	59	S1-	70 - 130

Lab Sample ID: MB 880-99161/1-A

Matrix: Solid

Analysis Batch: 99162

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99161

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		12/31/24 10:44	12/31/24 08:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/31/24 10:44	12/31/24 08:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/31/24 10:44	12/31/24 08:42	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	81		70 - 130	12/31/24 10:44	12/31/24 08:42	1
o-Terphenyl	77		70 - 130	12/31/24 10:44	12/31/24 08:42	1

Lab Sample ID: LCS 880-99161/2-A

Matrix: Solid

Analysis Batch: 99162

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	935.8		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	877.5		mg/Kg		88	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	99		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-99161/3-A

Matrix: Solid

Analysis Batch: 99162

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99161

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	953.3		mg/Kg		95	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	887.6		mg/Kg		89	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	99		70 - 130						
o-Terphenyl	101		70 - 130						

Lab Sample ID: 890-7523-A-1-G MS

Matrix: Solid

Analysis Batch: 99162

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 99161

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	<49.9	U F1	1010	611.7	F1	mg/Kg		61	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1010	642.8	F1	mg/Kg		62	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	81		70 - 130								
o-Terphenyl	72		70 - 130								

Lab Sample ID: 890-7523-A-1-H MSD

Matrix: Solid

Analysis Batch: 99162

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 99161

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 F1	1010	602.2	F1	mg/Kg		60	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1010	657.1	F1	mg/Kg		63	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	67	S1-	70 - 130								
o-Terphenyl	69	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99160/1-A

Matrix: Solid

Analysis Batch: 99181

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/31/24 12:36	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-99160/2-A
Matrix: Solid
Analysis Batch: 99181

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.8		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-99160/3-A
Matrix: Solid
Analysis Batch: 99181

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	263.3		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-52689-A-10-B MS
Matrix: Solid
Analysis Batch: 99181

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	12000	F1	12600	28200	F1	mg/Kg		129	90 - 110

Lab Sample ID: 880-52689-A-10-C MSD
Matrix: Solid
Analysis Batch: 99181

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	12000	F1	12600	28120	F1	mg/Kg		129	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 99142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52702-1	CS-11 (2.25')	Total/NA	Solid	8021B	99147
880-52702-2	CS-15 (2.25')	Total/NA	Solid	8021B	99147
880-52702-3	CS-16 (2.25')	Total/NA	Solid	8021B	99147
880-52702-4	CS-19 (2.25')	Total/NA	Solid	8021B	99147
880-52702-5	CS-20 (2.25')	Total/NA	Solid	8021B	99147
880-52702-6	CS-23 (2.25')	Total/NA	Solid	8021B	99147
880-52702-7	CS-24 (2.25')	Total/NA	Solid	8021B	99147
880-52702-8	SW-2 (2.0')	Total/NA	Solid	8021B	99147
MB 880-99147/5-A	Method Blank	Total/NA	Solid	8021B	99147
LCS 880-99147/1-A	Lab Control Sample	Total/NA	Solid	8021B	99147
LCSD 880-99147/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99147
890-7521-A-19-C MS	Matrix Spike	Total/NA	Solid	8021B	99147
890-7521-A-19-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	99147

Prep Batch: 99147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52702-1	CS-11 (2.25')	Total/NA	Solid	5035	
880-52702-2	CS-15 (2.25')	Total/NA	Solid	5035	
880-52702-3	CS-16 (2.25')	Total/NA	Solid	5035	
880-52702-4	CS-19 (2.25')	Total/NA	Solid	5035	
880-52702-5	CS-20 (2.25')	Total/NA	Solid	5035	
880-52702-6	CS-23 (2.25')	Total/NA	Solid	5035	
880-52702-7	CS-24 (2.25')	Total/NA	Solid	5035	
880-52702-8	SW-2 (2.0')	Total/NA	Solid	5035	
MB 880-99147/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99147/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99147/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7521-A-19-C MS	Matrix Spike	Total/NA	Solid	5035	
890-7521-A-19-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 99215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52702-1	CS-11 (2.25')	Total/NA	Solid	Total BTEX	
880-52702-2	CS-15 (2.25')	Total/NA	Solid	Total BTEX	
880-52702-3	CS-16 (2.25')	Total/NA	Solid	Total BTEX	
880-52702-4	CS-19 (2.25')	Total/NA	Solid	Total BTEX	
880-52702-5	CS-20 (2.25')	Total/NA	Solid	Total BTEX	
880-52702-6	CS-23 (2.25')	Total/NA	Solid	Total BTEX	
880-52702-7	CS-24 (2.25')	Total/NA	Solid	Total BTEX	
880-52702-8	SW-2 (2.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 99124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52702-6	CS-23 (2.25')	Total/NA	Solid	8015NM Prep	
880-52702-7	CS-24 (2.25')	Total/NA	Solid	8015NM Prep	
880-52702-8	SW-2 (2.0')	Total/NA	Solid	8015NM Prep	
MB 880-99124/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99124/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Prep Batch: 99124 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7521-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 99158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52702-1	CS-11 (2.25')	Total/NA	Solid	8015NM Prep	
MB 880-99158/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99158/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52702-1 MS	CS-11 (2.25')	Total/NA	Solid	8015NM Prep	
880-52702-1 MSD	CS-11 (2.25')	Total/NA	Solid	8015NM Prep	

Prep Batch: 99161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52702-2	CS-15 (2.25')	Total/NA	Solid	8015NM Prep	
880-52702-3	CS-16 (2.25')	Total/NA	Solid	8015NM Prep	
880-52702-4	CS-19 (2.25')	Total/NA	Solid	8015NM Prep	
880-52702-5	CS-20 (2.25')	Total/NA	Solid	8015NM Prep	
MB 880-99161/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99161/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99161/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7523-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7523-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52702-2	CS-15 (2.25')	Total/NA	Solid	8015B NM	99161
880-52702-3	CS-16 (2.25')	Total/NA	Solid	8015B NM	99161
880-52702-4	CS-19 (2.25')	Total/NA	Solid	8015B NM	99161
880-52702-5	CS-20 (2.25')	Total/NA	Solid	8015B NM	99161
MB 880-99161/1-A	Method Blank	Total/NA	Solid	8015B NM	99161
LCS 880-99161/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99161
LCSD 880-99161/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99161
890-7523-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	99161
890-7523-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99161

Analysis Batch: 99164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52702-6	CS-23 (2.25')	Total/NA	Solid	8015B NM	99124
880-52702-7	CS-24 (2.25')	Total/NA	Solid	8015B NM	99124
880-52702-8	SW-2 (2.0')	Total/NA	Solid	8015B NM	99124
MB 880-99124/1-A	Method Blank	Total/NA	Solid	8015B NM	99124
LCS 880-99124/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99124
LCSD 880-99124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99124
890-7521-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	99124
890-7521-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99124

Analysis Batch: 99168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52702-1	CS-11 (2.25')	Total/NA	Solid	8015B NM	99158
MB 880-99158/1-A	Method Blank	Total/NA	Solid	8015B NM	99158

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QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 99168 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-99158/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99158
LCSD 880-99158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99158
880-52702-1 MS	CS-11 (2.25')	Total/NA	Solid	8015B NM	99158
880-52702-1 MSD	CS-11 (2.25')	Total/NA	Solid	8015B NM	99158

Analysis Batch: 99219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52702-1	CS-11 (2.25')	Total/NA	Solid	8015 NM	
880-52702-2	CS-15 (2.25')	Total/NA	Solid	8015 NM	
880-52702-3	CS-16 (2.25')	Total/NA	Solid	8015 NM	
880-52702-4	CS-19 (2.25')	Total/NA	Solid	8015 NM	
880-52702-5	CS-20 (2.25')	Total/NA	Solid	8015 NM	
880-52702-6	CS-23 (2.25')	Total/NA	Solid	8015 NM	
880-52702-7	CS-24 (2.25')	Total/NA	Solid	8015 NM	
880-52702-8	SW-2 (2.0')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52702-1	CS-11 (2.25')	Soluble	Solid	DI Leach	
880-52702-2	CS-15 (2.25')	Soluble	Solid	DI Leach	
880-52702-3	CS-16 (2.25')	Soluble	Solid	DI Leach	
880-52702-4	CS-19 (2.25')	Soluble	Solid	DI Leach	
880-52702-5	CS-20 (2.25')	Soluble	Solid	DI Leach	
880-52702-6	CS-23 (2.25')	Soluble	Solid	DI Leach	
880-52702-7	CS-24 (2.25')	Soluble	Solid	DI Leach	
880-52702-8	SW-2 (2.0')	Soluble	Solid	DI Leach	
MB 880-99160/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99160/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99160/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52689-A-10-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52689-A-10-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 99181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52702-1	CS-11 (2.25')	Soluble	Solid	300.0	99160
880-52702-2	CS-15 (2.25')	Soluble	Solid	300.0	99160
880-52702-3	CS-16 (2.25')	Soluble	Solid	300.0	99160
880-52702-4	CS-19 (2.25')	Soluble	Solid	300.0	99160
880-52702-5	CS-20 (2.25')	Soluble	Solid	300.0	99160
880-52702-6	CS-23 (2.25')	Soluble	Solid	300.0	99160
880-52702-7	CS-24 (2.25')	Soluble	Solid	300.0	99160
880-52702-8	SW-2 (2.0')	Soluble	Solid	300.0	99160
MB 880-99160/1-A	Method Blank	Soluble	Solid	300.0	99160
LCS 880-99160/2-A	Lab Control Sample	Soluble	Solid	300.0	99160
LCSD 880-99160/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99160
880-52689-A-10-B MS	Matrix Spike	Soluble	Solid	300.0	99160
880-52689-A-10-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	99160

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

Client Sample ID: CS-11 (2.25')**Lab Sample ID: 880-52702-1****Date Collected: 12/31/24 00:00****Matrix: Solid****Date Received: 12/31/24 08:55**

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	99147	12/31/24 10:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99142	12/31/24 13:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99215	12/31/24 13:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			99219	12/31/24 11:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 11:39	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99160	12/31/24 10:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99181	12/31/24 13:10	CH	EET MID

Client Sample ID: CS-15 (2.25')**Lab Sample ID: 880-52702-2****Date Collected: 12/31/24 00:00****Matrix: Solid****Date Received: 12/31/24 08:55**

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	99147	12/31/24 10:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99142	12/31/24 14:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99215	12/31/24 14:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			99219	12/31/24 13:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	99161	12/31/24 10:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 13:57	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99160	12/31/24 10:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99181	12/31/24 13:16	CH	EET MID

Client Sample ID: CS-16 (2.25')**Lab Sample ID: 880-52702-3****Date Collected: 12/31/24 00:00****Matrix: Solid****Date Received: 12/31/24 08:55**

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	99147	12/31/24 10:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99142	12/31/24 14:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99215	12/31/24 14:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			99219	12/31/24 14:13	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	99161	12/31/24 10:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 14:13	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99160	12/31/24 10:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99181	12/31/24 13:21	CH	EET MID

Client Sample ID: CS-19 (2.25')**Lab Sample ID: 880-52702-4****Date Collected: 12/31/24 00:00****Matrix: Solid****Date Received: 12/31/24 08:55**

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	99147	12/31/24 10:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99142	12/31/24 14:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99215	12/31/24 14:58	SM	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

Client Sample ID: CS-19 (2.25')**Lab Sample ID: 880-52702-4****Date Collected: 12/31/24 00:00****Matrix: Solid****Date Received: 12/31/24 08:55**

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			99219	12/31/24 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99161	12/31/24 10:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 14:29	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99160	12/31/24 10:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99181	12/31/24 13:27	CH	EET MID

Client Sample ID: CS-20 (2.25')**Lab Sample ID: 880-52702-5****Date Collected: 12/31/24 00:00****Matrix: Solid****Date Received: 12/31/24 08:55**

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	99147	12/31/24 10:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99142	12/31/24 16:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99215	12/31/24 16:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			99219	12/31/24 14:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99161	12/31/24 10:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 14:45	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	99160	12/31/24 10:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99181	12/31/24 13:44	CH	EET MID

Client Sample ID: CS-23 (2.25')**Lab Sample ID: 880-52702-6****Date Collected: 12/31/24 00:00****Matrix: Solid****Date Received: 12/31/24 08:55**

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	99147	12/31/24 10:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99142	12/31/24 16:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99215	12/31/24 16:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			99219	12/31/24 14:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99124	12/30/24 19:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99164	12/31/24 14:13	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99160	12/31/24 10:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99181	12/31/24 13:50	CH	EET MID

Client Sample ID: CS-24 (2.25')**Lab Sample ID: 880-52702-7****Date Collected: 12/31/24 00:00****Matrix: Solid****Date Received: 12/31/24 08:55**

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	99147	12/31/24 10:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99142	12/31/24 17:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99215	12/31/24 17:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			99219	12/31/24 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99124	12/30/24 19:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99164	12/31/24 14:29	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

Client Sample ID: CS-24 (2.25')
Date Collected: 12/31/24 00:00
Date Received: 12/31/24 08:55

Lab Sample ID: 880-52702-7
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			5.03 g	50 mL	99160	12/31/24 10:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99181	12/31/24 13:56	CH	EET MID

Client Sample ID: SW-2 (2.0')
Date Collected: 12/31/24 00:00
Date Received: 12/31/24 08:55

Lab Sample ID: 880-52702-8
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			5.04 g	5 mL	99147	12/31/24 10:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99142	12/31/24 17:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99215	12/31/24 17:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			99219	12/31/24 14:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99124	12/30/24 19:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99164	12/31/24 14:45	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	99160	12/31/24 10:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99181	12/31/24 14:01	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy 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	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
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: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy 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	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52702-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52702-1	CS-11 (2.25')	Solid	12/31/24 00:00	12/31/24 08:55
880-52702-2	CS-15 (2.25')	Solid	12/31/24 00:00	12/31/24 08:55
880-52702-3	CS-16 (2.25')	Solid	12/31/24 00:00	12/31/24 08:55
880-52702-4	CS-19 (2.25')	Solid	12/31/24 00:00	12/31/24 08:55
880-52702-5	CS-20 (2.25')	Solid	12/31/24 00:00	12/31/24 08:55
880-52702-6	CS-23 (2.25')	Solid	12/31/24 00:00	12/31/24 08:55
880-52702-7	CS-24 (2.25')	Solid	12/31/24 00:00	12/31/24 08:55
880-52702-8	SW-2 (2.0')	Solid	12/31/24 00:00	12/31/24 08:55

Chain of Custody



880-52702 Chain of Custody

Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com ashton.thielke@coterra.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ JRC ☐ ☐ perfund	
State of Project:	
Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

ANALYSIS REQUEST										Preservative Codes		
Project Name:	Bonnie 35 Federal Com #4H	Turn Around	Pres. Code									
Project Number:	2084	☐ Routine ☒ Rush										
Project Location	Eddy Co, NM	Due Date:	24 Hrs <th colspan="6"></th> <th colspan="2"></th>									
Sampler's Name:	GPJ <th colspan="2"></th> <th colspan="6"></th> <th colspan="2"></th>											
PO #:												
SAMPLE RECEIPT Received Intact: Yes ☒ No ☐ Temp Blank: Yes ☒ No ☐ Wet Ice: Yes ☒ No ☐ Cooler Custody Seals: Yes ☒ No ☐ Thermometer ID: <u>773</u> Sample Custody Seals: Yes ☒ No ☐ Correction Factor: <u>-1.9</u> Total Containers: <u>2.0</u>												
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont						Sample Comments
CS-11 (2.25')	12/31/2024		X		Comp	1	BTX 8021B					
CS-15 (2.25')	12/31/2024		X		Comp	1	TPH 8015M (GRO + DRO + MRO)					
CS-16 (2.25')	12/31/2024		X		Comp	1	Chloride 300.0					
CS-19 (2.25')	12/31/2024		X		Comp	1						
CS-20 (2.25')	12/31/2024		X		Comp	1						
CS-23 (2.25')	12/31/2024		X		Comp	1						
CS-24 (2.25')	12/31/2024		X		Comp	1						
SW-2 (2.0')	12/31/2024		X		Comp	1						

Comments:

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		12/31/24

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52702-1

SDG Number: Eddy Co, NM

Login Number: 52702

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/8/2025 10:56:53 AM

JOB DESCRIPTION

Bonnie 35 Federal Com #4H
Eddy Co, NM

JOB NUMBER

880-52910-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
1/8/2025 10:56:53 AM

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

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Laboratory Job ID: 880-52910-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
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.
☼	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: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1

Job ID: 880-52910-1

Eurofins Midland

Job Narrative
880-52910-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 1/7/2025 9:26 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-1') (880-52910-1), S-2 (0-1') (880-52910-2), S-3 (0-1') (880-52910-3), S-4 (0-1') (880-52910-4), S-5 (0-1') (880-52910-5), S-6 (0-1') (880-52910-6) and S-7 (0-1') (880-52910-7).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-2 (0-1') (880-52910-2) and S-3 (0-1') (880-52910-3). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-99667/2-A) and (LCSD 880-99667/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-99655 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-99655/58).

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: S-1 (0-1') (880-52910-1), S-5 (0-1') (880-52910-5) and S-7 (0-1') (880-52910-7). Percent recoveries are based on the amount spiked.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99593 and analytical batch 880-99699 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-52910-1

Date Collected: 01/06/25 00:00

Matrix: Solid

Date Received: 01/07/25 09:26

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		01/07/25 10:10	01/08/25 03:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/08/25 03:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/08/25 03:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/07/25 10:10	01/08/25 03:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/08/25 03:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/07/25 10:10	01/08/25 03:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	01/07/25 10:10	01/08/25 03:12	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/07/25 10:10	01/08/25 03:12	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			01/08/25 03:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/07/25 21:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/25 16:03	01/07/25 21:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/25 16:03	01/07/25 21:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 16:03	01/07/25 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130	01/07/25 16:03	01/07/25 21:15	1
o-Terphenyl	66	S1-	70 - 130	01/07/25 16:03	01/07/25 21:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.8		10.0		mg/Kg			01/08/25 01:04	1

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

Lab Sample ID: 880-52910-2

Date Collected: 01/06/25 00:00

Matrix: Solid

Date Received: 01/07/25 09:26

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		01/07/25 10:10	01/08/25 03:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 10:10	01/08/25 03:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 10:10	01/08/25 03:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 10:10	01/08/25 03:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 10:10	01/08/25 03:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 10:10	01/08/25 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	01/07/25 10:10	01/08/25 03:32	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/07/25 10:10	01/08/25 03:32	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-52910-2

Date Collected: 01/06/25 00:00

Matrix: Solid

Date Received: 01/07/25 09:26

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			01/08/25 03:32	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			01/07/25 21:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/25 16:03	01/07/25 21:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 16:03	01/07/25 21:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:03	01/07/25 21:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				01/07/25 16:03	01/07/25 21:31	1
o-Terphenyl	69	S1-	70 - 130				01/07/25 16:03	01/07/25 21:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		10.1		mg/Kg			01/08/25 01:25	1

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

Lab Sample ID: 880-52910-3

Date Collected: 01/06/25 00:00

Matrix: Solid

Date Received: 01/07/25 09:26

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		01/07/25 10:10	01/08/25 03:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 10:10	01/08/25 03:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 10:10	01/08/25 03:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 10:10	01/08/25 03:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 10:10	01/08/25 03:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 10:10	01/08/25 03:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				01/07/25 10:10	01/08/25 03:53	1
1,4-Difluorobenzene (Surr)	92		70 - 130				01/07/25 10:10	01/08/25 03:53	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			01/08/25 03:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/07/25 21:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/25 16:03	01/07/25 21:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 16:03	01/07/25 21:45	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-52910-3

Date Collected: 01/06/25 00:00

Matrix: Solid

Date Received: 01/07/25 09:26

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		01/07/25 16:03	01/07/25 21:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				01/07/25 16:03	01/07/25 21:45	1
o-Terphenyl	69	S1-	70 - 130				01/07/25 16:03	01/07/25 21:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		9.96		mg/Kg			01/08/25 01:32	1

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

Lab Sample ID: 880-52910-4

Date Collected: 01/06/25 00:00

Matrix: Solid

Date Received: 01/07/25 09:26

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		01/07/25 10:10	01/08/25 04:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 10:10	01/08/25 04:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 10:10	01/08/25 04:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 10:10	01/08/25 04:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 10:10	01/08/25 04:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 10:10	01/08/25 04:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				01/07/25 10:10	01/08/25 04:13	1
1,4-Difluorobenzene (Surr)	95		70 - 130				01/07/25 10:10	01/08/25 04:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/08/25 04:13	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			01/07/25 22:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/25 16:03	01/07/25 22:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/25 16:03	01/07/25 22:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 16:03	01/07/25 22:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				01/07/25 16:03	01/07/25 22:01	1
o-Terphenyl	70		70 - 130				01/07/25 16:03	01/07/25 22:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		9.92		mg/Kg			01/08/25 01:38	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-52910-5

Date Collected: 01/06/25 00:00

Matrix: Solid

Date Received: 01/07/25 09:26

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		01/07/25 10:10	01/08/25 04:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/08/25 04:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/08/25 04:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 10:10	01/08/25 04:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/08/25 04:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 10:10	01/08/25 04:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	01/07/25 10:10	01/08/25 04:34	1
1,4-Difluorobenzene (Surr)	97		70 - 130	01/07/25 10:10	01/08/25 04:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/08/25 04:34	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			01/07/25 22:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/25 16:03	01/07/25 22:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/25 16:03	01/07/25 22:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 16:03	01/07/25 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130	01/07/25 16:03	01/07/25 22:15	1
o-Terphenyl	65	S1-	70 - 130	01/07/25 16:03	01/07/25 22:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.9		9.92		mg/Kg			01/08/25 01:45	1

Client Sample ID: S-6 (0-1')

Lab Sample ID: 880-52910-6

Date Collected: 01/06/25 00:00

Matrix: Solid

Date Received: 01/07/25 09:26

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		01/07/25 10:10	01/08/25 04:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 10:10	01/08/25 04:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 10:10	01/08/25 04:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 10:10	01/08/25 04:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 10:10	01/08/25 04:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 10:10	01/08/25 04:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	01/07/25 10:10	01/08/25 04:54	1
1,4-Difluorobenzene (Surr)	97		70 - 130	01/07/25 10:10	01/08/25 04:54	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

Client Sample ID: S-6 (0-1')

Lab Sample ID: 880-52910-6

Date Collected: 01/06/25 00:00

Matrix: Solid

Date Received: 01/07/25 09:26

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			01/08/25 04:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/07/25 22:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/25 16:03	01/07/25 22:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 16:03	01/07/25 22:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:03	01/07/25 22:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				01/07/25 16:03	01/07/25 22:30	1
o-Terphenyl	71		70 - 130				01/07/25 16:03	01/07/25 22:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.0		10.0		mg/Kg			01/08/25 01:52	1

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

Lab Sample ID: 880-52910-7

Date Collected: 01/06/25 00:00

Matrix: Solid

Date Received: 01/07/25 09:26

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		01/07/25 10:10	01/08/25 05:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 10:10	01/08/25 05:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 10:10	01/08/25 05:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 10:10	01/08/25 05:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 10:10	01/08/25 05:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 10:10	01/08/25 05:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				01/07/25 10:10	01/08/25 05:15	1
1,4-Difluorobenzene (Surr)	96		70 - 130				01/07/25 10:10	01/08/25 05:15	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			01/08/25 05:15	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			01/07/25 23:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/07/25 16:03	01/07/25 23:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/07/25 16:03	01/07/25 23:00	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

Client Sample ID: S-7 (0-1')
Date Collected: 01/06/25 00:00
Date Received: 01/07/25 09:26

Lab Sample ID: 880-52910-7
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 16:03	01/07/25 23:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				01/07/25 16:03	01/07/25 23:00	1
o-Terphenyl	66	S1-	70 - 130				01/07/25 16:03	01/07/25 23:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.7		9.90		mg/Kg			01/08/25 01:59	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-52910-1	S-1 (0-1')	105	94				
880-52910-2	S-2 (0-1')	102	95				
880-52910-3	S-3 (0-1')	116	92				
880-52910-4	S-4 (0-1')	106	95				
880-52910-5	S-5 (0-1')	107	97				
880-52910-6	S-6 (0-1')	105	97				
880-52910-7	S-7 (0-1')	96	96				
890-7532-A-1-B MS	Matrix Spike	110	100				
890-7532-A-1-C MSD	Matrix Spike Duplicate	94	100				
LCS 880-99662/1-A	Lab Control Sample	111	96				
LCSD 880-99662/2-A	Lab Control Sample Dup	112	100				
MB 880-99633/5-A	Method Blank	86	91				
MB 880-99662/5-A	Method Blank	99	90				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-52910-1	S-1 (0-1')	67 S1-	66 S1-				
880-52910-2	S-2 (0-1')	71	69 S1-				
880-52910-3	S-3 (0-1')	71	69 S1-				
880-52910-4	S-4 (0-1')	71	70				
880-52910-5	S-5 (0-1')	66 S1-	65 S1-				
880-52910-6	S-6 (0-1')	72	71				
880-52910-7	S-7 (0-1')	67 S1-	66 S1-				
890-7543-A-1-E MS	Matrix Spike	79	75				
890-7543-A-1-F MSD	Matrix Spike Duplicate	80	76				
LCS 880-99667/2-A	Lab Control Sample	136 S1+	128				
LCSD 880-99667/3-A	Lab Control Sample Dup	137 S1+	130				
MB 880-99667/1-A	Method Blank	107	110				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99633/5-A

Matrix: Solid

Analysis Batch: 99625

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:46	01/07/25 11:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	01/07/25 08:46	01/07/25 11:13	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/07/25 08:46	01/07/25 11:13	1

Lab Sample ID: MB 880-99662/5-A

Matrix: Solid

Analysis Batch: 99625

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99662

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/07/25 22:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/07/25 22:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/07/25 22:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 10:10	01/07/25 22:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/07/25 22:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 10:10	01/07/25 22:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	01/07/25 10:10	01/07/25 22:11	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/07/25 10:10	01/07/25 22:11	1

Lab Sample ID: LCS 880-99662/1-A

Matrix: Solid

Analysis Batch: 99625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1118		mg/Kg		112	70 - 130
Toluene	0.100	0.1137		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2113		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1165		mg/Kg		117	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-99662/2-A

Matrix: Solid

Analysis Batch: 99625

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99662

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1125		mg/Kg		113	70 - 130	1	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-99662/2-A

Matrix: Solid

Analysis Batch: 99625

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99662

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1118		mg/Kg		112	70 - 130	2	35
Ethylbenzene	0.100	0.1088		mg/Kg		109	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2089		mg/Kg		104	70 - 130	1	35
o-Xylene	0.100	0.1155		mg/Kg		115	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-7532-A-1-B MS

Matrix: Solid

Analysis Batch: 99625

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 99662

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1020		mg/Kg		102	70 - 130
Toluene	<0.00200	U	0.100	0.1055		mg/Kg		106	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1010		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1918		mg/Kg		96	70 - 130
o-Xylene	<0.00200	U	0.100	0.1042		mg/Kg		104	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-7532-A-1-C MSD

Matrix: Solid

Analysis Batch: 99625

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 99662

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1117		mg/Kg		112	70 - 130	9	35
Toluene	<0.00200	U	0.100	0.1097		mg/Kg		110	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.100	0.1040		mg/Kg		104	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1985		mg/Kg		99	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.1072		mg/Kg		107	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-99667/1-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99667

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		01/07/25 10:51	01/07/25 18:47	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-99667/1-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99667

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		01/07/25 10:51	01/07/25 18:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				01/07/25 10:51	01/07/25 18:47	1
o-Terphenyl	110		70 - 130				01/07/25 10:51	01/07/25 18:47	1

Lab Sample ID: LCS 880-99667/2-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1154		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1224		mg/Kg		122	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	136	S1+	70 - 130				
o-Terphenyl	128		70 - 130				

Lab Sample ID: LCSD 880-99667/3-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99667

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1174		mg/Kg		117	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1280		mg/Kg		128	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	137	S1+	70 - 130						
o-Terphenyl	130		70 - 130						

Lab Sample ID: 890-7543-A-1-E MS

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 99667

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	997	838.4		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<50.2	U	997	837.3		mg/Kg		84	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	79		70 - 130						
o-Terphenyl	75		70 - 130						

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-7543-A-1-F MSD

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 99667

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	997	859.1		mg/Kg		86	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.2	U	997	866.2		mg/Kg		87	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	80		70 - 130								
o-Terphenyl	76		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99593/1-A

Matrix: Solid

Analysis Batch: 99699

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/07/25 22:40	1

Lab Sample ID: LCS 880-99593/2-A

Matrix: Solid

Analysis Batch: 99699

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	271.5		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-99593/3-A

Matrix: Solid

Analysis Batch: 99699

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	264.0		mg/Kg		106	90 - 110	3	20

Lab Sample ID: 880-52908-A-1-C MS

Matrix: Solid

Analysis Batch: 99699

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	471	F1	251	774.7	F1	mg/Kg		121	90 - 110

Lab Sample ID: 880-52908-A-1-D MSD

Matrix: Solid

Analysis Batch: 99699

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	471	F1	251	758.1	F1	mg/Kg		114	90 - 110	2	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 99625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52910-1	S-1 (0-1')	Total/NA	Solid	8021B	99662
880-52910-2	S-2 (0-1')	Total/NA	Solid	8021B	99662
880-52910-3	S-3 (0-1')	Total/NA	Solid	8021B	99662
880-52910-4	S-4 (0-1')	Total/NA	Solid	8021B	99662
880-52910-5	S-5 (0-1')	Total/NA	Solid	8021B	99662
880-52910-6	S-6 (0-1')	Total/NA	Solid	8021B	99662
880-52910-7	S-7 (0-1')	Total/NA	Solid	8021B	99662
MB 880-99633/5-A	Method Blank	Total/NA	Solid	8021B	99633
MB 880-99662/5-A	Method Blank	Total/NA	Solid	8021B	99662
LCS 880-99662/1-A	Lab Control Sample	Total/NA	Solid	8021B	99662
LCSD 880-99662/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99662
890-7532-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	99662
890-7532-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	99662

Prep Batch: 99633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-99633/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 99662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52910-1	S-1 (0-1')	Total/NA	Solid	5035	
880-52910-2	S-2 (0-1')	Total/NA	Solid	5035	
880-52910-3	S-3 (0-1')	Total/NA	Solid	5035	
880-52910-4	S-4 (0-1')	Total/NA	Solid	5035	
880-52910-5	S-5 (0-1')	Total/NA	Solid	5035	
880-52910-6	S-6 (0-1')	Total/NA	Solid	5035	
880-52910-7	S-7 (0-1')	Total/NA	Solid	5035	
MB 880-99662/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99662/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99662/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7532-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-7532-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 99781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52910-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-52910-2	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-52910-3	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-52910-4	S-4 (0-1')	Total/NA	Solid	Total BTEX	
880-52910-5	S-5 (0-1')	Total/NA	Solid	Total BTEX	
880-52910-6	S-6 (0-1')	Total/NA	Solid	Total BTEX	
880-52910-7	S-7 (0-1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 99655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52910-1	S-1 (0-1')	Total/NA	Solid	8015B NM	99667
880-52910-2	S-2 (0-1')	Total/NA	Solid	8015B NM	99667
880-52910-3	S-3 (0-1')	Total/NA	Solid	8015B NM	99667
880-52910-4	S-4 (0-1')	Total/NA	Solid	8015B NM	99667

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 99655 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52910-5	S-5 (0-1')	Total/NA	Solid	8015B NM	99667
880-52910-6	S-6 (0-1')	Total/NA	Solid	8015B NM	99667
880-52910-7	S-7 (0-1')	Total/NA	Solid	8015B NM	99667
MB 880-99667/1-A	Method Blank	Total/NA	Solid	8015B NM	99667
LCS 880-99667/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99667
LCSD 880-99667/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99667
890-7543-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	99667
890-7543-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99667

Prep Batch: 99667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52910-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-52910-2	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-52910-3	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-52910-4	S-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-52910-5	S-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-52910-6	S-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-52910-7	S-7 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-99667/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99667/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99667/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7543-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7543-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52910-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-52910-2	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-52910-3	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-52910-4	S-4 (0-1')	Total/NA	Solid	8015 NM	
880-52910-5	S-5 (0-1')	Total/NA	Solid	8015 NM	
880-52910-6	S-6 (0-1')	Total/NA	Solid	8015 NM	
880-52910-7	S-7 (0-1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52910-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-52910-2	S-2 (0-1')	Soluble	Solid	DI Leach	
880-52910-3	S-3 (0-1')	Soluble	Solid	DI Leach	
880-52910-4	S-4 (0-1')	Soluble	Solid	DI Leach	
880-52910-5	S-5 (0-1')	Soluble	Solid	DI Leach	
880-52910-6	S-6 (0-1')	Soluble	Solid	DI Leach	
880-52910-7	S-7 (0-1')	Soluble	Solid	DI Leach	
MB 880-99593/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99593/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99593/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52908-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52908-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

HPLC/IC

Analysis Batch: 99699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52910-1	S-1 (0-1')	Soluble	Solid	300.0	99593
880-52910-2	S-2 (0-1')	Soluble	Solid	300.0	99593
880-52910-3	S-3 (0-1')	Soluble	Solid	300.0	99593
880-52910-4	S-4 (0-1')	Soluble	Solid	300.0	99593
880-52910-5	S-5 (0-1')	Soluble	Solid	300.0	99593
880-52910-6	S-6 (0-1')	Soluble	Solid	300.0	99593
880-52910-7	S-7 (0-1')	Soluble	Solid	300.0	99593
MB 880-99593/1-A	Method Blank	Soluble	Solid	300.0	99593
LCS 880-99593/2-A	Lab Control Sample	Soluble	Solid	300.0	99593
LCSD 880-99593/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99593
880-52908-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	99593
880-52908-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	99593

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-52910-1

Date Collected: 01/06/25 00:00

Matrix: Solid

Date Received: 01/07/25 09:26

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	99662	01/07/25 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99625	01/08/25 03:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99781	01/08/25 03:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			99772	01/07/25 21:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99667	01/07/25 16:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99655	01/07/25 21:15	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99593	01/07/25 16:27	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99699	01/08/25 01:04	CH	EET MID

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

Lab Sample ID: 880-52910-2

Date Collected: 01/06/25 00:00

Matrix: Solid

Date Received: 01/07/25 09:26

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	99662	01/07/25 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99625	01/08/25 03:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99781	01/08/25 03:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			99772	01/07/25 21:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	99667	01/07/25 16:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99655	01/07/25 21:31	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99593	01/07/25 16:27	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99699	01/08/25 01:25	CH	EET MID

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

Lab Sample ID: 880-52910-3

Date Collected: 01/06/25 00:00

Matrix: Solid

Date Received: 01/07/25 09:26

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	99662	01/07/25 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99625	01/08/25 03:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99781	01/08/25 03:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			99772	01/07/25 21:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99667	01/07/25 16:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99655	01/07/25 21:45	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99593	01/07/25 16:27	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99699	01/08/25 01:32	CH	EET MID

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

Lab Sample ID: 880-52910-4

Date Collected: 01/06/25 00:00

Matrix: Solid

Date Received: 01/07/25 09:26

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	99662	01/07/25 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99625	01/08/25 04:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99781	01/08/25 04:13	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-52910-4

Date Collected: 01/06/25 00:00

Matrix: Solid

Date Received: 01/07/25 09:26

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			99772	01/07/25 22:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99667	01/07/25 16:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99655	01/07/25 22:01	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	99593	01/07/25 16:27	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99699	01/08/25 01:38	CH	EET MID

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

Lab Sample ID: 880-52910-5

Date Collected: 01/06/25 00:00

Matrix: Solid

Date Received: 01/07/25 09:26

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	99662	01/07/25 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99625	01/08/25 04:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99781	01/08/25 04:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			99772	01/07/25 22:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99667	01/07/25 16:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99655	01/07/25 22:15	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	99593	01/07/25 16:27	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99699	01/08/25 01:45	CH	EET MID

Client Sample ID: S-6 (0-1')

Lab Sample ID: 880-52910-6

Date Collected: 01/06/25 00:00

Matrix: Solid

Date Received: 01/07/25 09:26

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	99662	01/07/25 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99625	01/08/25 04:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99781	01/08/25 04:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			99772	01/07/25 22:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99667	01/07/25 16:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99655	01/07/25 22:30	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99593	01/07/25 16:27	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99699	01/08/25 01:52	CH	EET MID

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

Lab Sample ID: 880-52910-7

Date Collected: 01/06/25 00:00

Matrix: Solid

Date Received: 01/07/25 09:26

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	99662	01/07/25 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99625	01/08/25 05:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99781	01/08/25 05:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			99772	01/07/25 23:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99667	01/07/25 16:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99655	01/07/25 23:00	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

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

Date Collected: 01/06/25 00:00

Date Received: 01/07/25 09:26

Lab Sample ID: 880-52910-7

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			5.05 g	50 mL	99593	01/07/25 16:27	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99699	01/08/25 01:59	CH	EET MID

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

- 1
- 2
- 3
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- 5
- 6
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- 12
- 13
- 14

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy 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	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
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- 7
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- 13
- 14

Method Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy 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	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52910-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52910-1	S-1 (0-1')	Solid	01/06/25 00:00	01/07/25 09:26
880-52910-2	S-2 (0-1')	Solid	01/06/25 00:00	01/07/25 09:26
880-52910-3	S-3 (0-1')	Solid	01/06/25 00:00	01/07/25 09:26
880-52910-4	S-4 (0-1')	Solid	01/06/25 00:00	01/07/25 09:26
880-52910-5	S-5 (0-1')	Solid	01/06/25 00:00	01/07/25 09:26
880-52910-6	S-6 (0-1')	Solid	01/06/25 00:00	01/07/25 09:26
880-52910-7	S-7 (0-1')	Solid	01/06/25 00:00	01/07/25 09:26

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- 11
- 12
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- 14



890-52910 Chain of Custody

Chain of Custody

Page 1 of 1

Project Manager: Ashton Thielke		Bill to: (if different)		Laci Luig	
Company Name: Carmona Resources		Company Name:		Cimarex Energy	
Address: 310 W Wall St Ste 500		Address:		600 N Marienfield St, Suite 600	
City, State ZIP: Midland, TX 79701		City, State ZIP:		Midland, TX 79701	
Phone: 432-813-8988		Email: laci.luig@coterra.com		ashton.thielke@coterra.com	

Project Name: Bonnie 35 Federal Com #4H		Turn Around		Pres. Code	
Project Number: 2084		☐ Routine ☒ Rush			
Project Location: Eddy Co, NM		Due Date: 72 Hrs			
Sampler's Name: JM					
PO #:					

ANALYSIS REQUEST										Preservative Codes	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	None: NO	DI Water: H ₂ O
S-1 (0-1')	1/6/2024		X		Grab/	1		X	X	Cool: Cool	MeOH: Me
S-2 (0-1')	1/6/2024		X		Grab/	1		X	X	HCL: HC	HNO ₃ : HN
S-3 (0-1')	1/6/2024		X		Grab/	1		X	X	H ₂ SO ₄ : H ₂	NaOH: Na
S-4 (0-1')	1/6/2024		X		Grab/	1		X	X	H ₃ PO ₄ : HP	
S-5 (0-1')	1/6/2024		X		Grab/	1		X	X	NaHSO ₄ : NABIS	
S-6 (0-1')	1/6/2024		X		Grab/	1		X	X	Na ₂ S ₂ O ₃ : NaSO ₃	
S-7 (0-1')	1/6/2024		X		Grab/	1		X	X	Zn Acetate+NaOH: Zn	
										NaOH+Ascorbic Acid: SAPC	
Sample Comments											

Comments:

Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
<i>Rebecca</i>		1/2/25 0924					

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52910-1

SDG Number: Eddy Co, NM

Login Number: 52910

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

APPENDIX F

CARMONA RESOURCES



SITE INFORMATION

Report Type: Work Plan 2RP-4382

General Site Information:

Site:	Bonnie 35 Fed #4H					
Company:	Cimarex Energy					
Section, Township and Range	Unit O	Sec 35	T 25S	R 26E		
Lease Number:	API No. 30-015-43619					
County:	Eddy County					
GPS:	32.079792° N			104.262311° W		
Surface Owner:	Federal					
Mineral Owner:	Federal					
Directions:	From the intersection of Old Cavern Hwy (748) and Whites City Rd (724), take 748 north for 0.88 miles, turn left (west) and go 0.22 miles, turn right (north) and go 450 feet, turn left (west) and go 0.4 miles. work location is on the pad, to the left (south)					

Release Data:

Date Released:	9/8/2017
Type Release:	Produced Water
Source of Contamination:	Sand Separator
Fluid Released:	40 bbls
Fluids Recovered:	20 bbls

Official Communication:

Name:	Christine Alderman		Clair Gonzales
Company:	Cimarex Energy		Tetra Tech
Address:	600 N Marienfeld St.		901 West Wall St.
	Ste 600		Ste 100
City:	Midland Texas		Midland, Texas
Phone number:	(432)853-7059		(432) 687-8123
Fax:			
Email:	calderman@cimarex.com		Clair.Gonzales@tetrattech.com

Site Characterization

Depth to Groundwater:	Less than 50'
Karst Potential:	Medium

Recommended Remedial Action Levels (RRALs)

Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	Chlorides
10 mg/kg	50 mg/kg	100 mg/kg	100 mg/kg	600 mg/kg



December 26, 2018

Christine Alderman
ESH Supervisor – Permian Basin
Cimarex Energy
600 N. Marienfeld St.
Midland, Texas 79701

Re: Work Plan for the Cimarex Energy, Bonnie 35 Federal #4, Unit O, Section 35, Township 25 South, Range 26 East, Eddy County, New Mexico. 2RP-4382.

Ms. Alderman:

Tetra Tech, Inc. (Tetra Tech) was contacted by Cimarex Energy (Cimarex) to assess a release that occurred at Bonnie 35 Federal #4, Unit O, Section 35, Township 25 South, Range 26 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.079792°, W 104.262311°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico Initial C-141, the release was discovered on September 8, 2017, and released approximately 40 barrels of produced water due to an auto dump controller for a sand separator failure, causing the tank to overflow. Vacuum trucks were used to remove all freestanding fluids, recovering approximately 20 barrels of produced water. The release impacted an area on the pad measuring approximately 174' x 255'. A copy of the initial C-141 Form is included in Appendix A.

Groundwater

No water wells were listed within Section 35 on the New Mexico Office of the State Engineer's (NMOSE) database, the Geology and Groundwater Resources of Eddy County (Report 3), or the USGS National Water Information Database. The nearest well is listed on the USGS National Water Information Database in Section 26, approximately 1.83 miles north of the site, and has a reported depth to groundwater of 24' below surface. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in the area is less than 25' below surface. The site is located in a medium karst potential area. The groundwater data is shown in Appendix B.

Tetra Tech

901 West Wall St, Ste 100 Midland, TX 79701

Tel 432.682.4559

Fax 432.682.3946

www.tetrattech.com



Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater and medium karst potential, the proposed RRAL for TPH is 100 mg/kg (GRO + DRO + ORO). Additionally, the proposed RRAL for chlorides is 600 mg/kg.

Soil Assessment and Analytical Results

Auger Holes

On September 20, 2018, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of eight auger holes (AH-1 through AH-8) were installed in the spill footprint to total depths ranging from 0-6" to 1.0-1.5' below surface. Deeper samples were not collected due to a dense formation in the area. Soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The sample location is shown on Figure 3.

Referring to Table 1, the areas of auger holes (AH-2, AH-5, AH-6, AH-7, and AH-8) did not show any benzene, total BTEX, TPH, or chloride concentrations above the RRALs. Additionally, the areas of auger holes (AH-3 and AH-4) showed benzene, total BTEX, and TPH concentrations below the laboratory reporting limit. However, the areas of auger holes (AH-3 and AH-4) showed chloride concentrations above the 600 mg/kg threshold at 0-1' and 1-1.5' below surface, and the chloride impact was not vertically defined. The area of auger hole (AH-1) showed benzene and total BTEX concentrations below the laboratory reporting limit, however a TPH concentration of 262 mg/kg and a chloride concentration of 2,470 mg/kg were detected at 0-1' below surface.

Bore Holes

In order to vertically define the TPH and chloride impact in the areas of auger holes (AH-1, AH-3, and AH-4), Tetra Tech returned to the site on November 30, 2018, and installed three boreholes (BH-1, BH-2, and BH-3). Soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The sample location is shown on Figure 3.



Referring to Table 1, the area of borehole (BH-1) showed a TPH high of 181 mg/kg at 0-1', which declined with depth to 28.2 mg/kg at 2-3' below surface. Chloride concentrations of 1,080 mg/kg (0-1') and 1,390 mg/kg (2-3') were detected. The chloride concentrations in the area of borehole (BH-1) then declined with depth to 335 mg/kg at 4-5' and 287 mg/kg at 6-7' below surface.

The areas of boreholes (BH-2 and BH-3) did not show any benzene, total BTEX, or TPH concentrations above the laboratory reporting limits. The area of borehole (BH-2) showed a chloride high of 3,180 mg/kg at 0-1', which declined with depth to 478 mg/kg at 2-3' and showed a bottom hole concentration of <5.03 mg/kg at 6-7' below surface. The area of borehole (BH-3) did not show any chloride concentrations above the RRAL, with a chloride high of 531 mg/kg at 0-1' below surface.

Work Plan

Based on the laboratory data, Cimarex proposes to excavate the areas as shown on Figure 4 and highlighted (green) in Table 1. The area of borehole (BH-1) will be excavated to approximately 2.0' below surface to remove the TPH and chloride impacted soils. The areas of boreholes (BH-2 and BH-3) will be excavated to approximately 1.0' below surface to remove the elevated chloride concentrations. Based on the size of the release area, composite bottom hole confirmation samples will be collected every 500-600 square feet to be representative and composite sidewall samples every 200 square feet. Tetra Tech estimates approximately 1,000 cubic yards of material to be removed. Once excavated, the area will be backfilled with clean material to surface grade and the removed materials will be hauled for proper disposal. The remediation will be implemented 90 days after approval.

If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

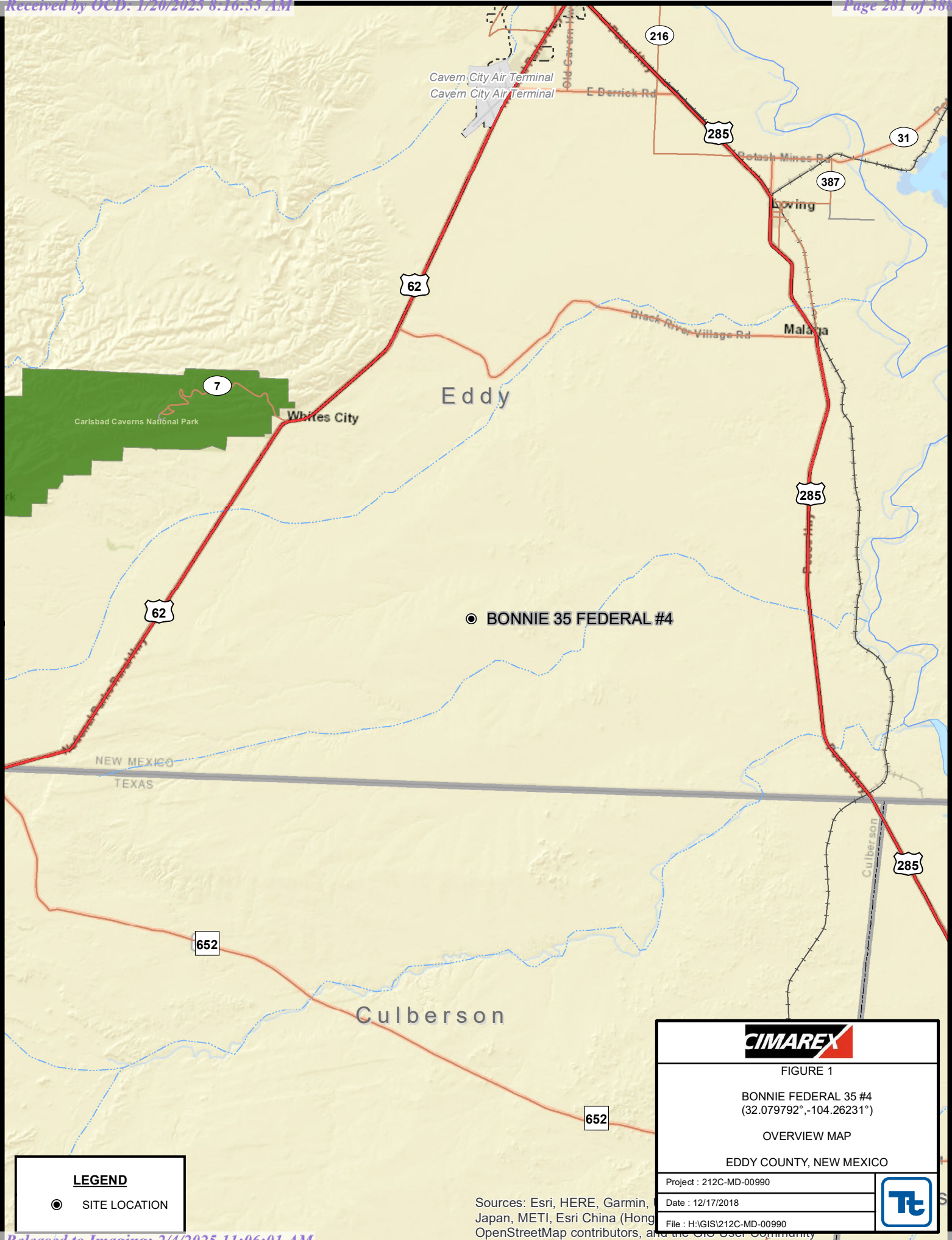
Respectfully submitted,
TETRA TECH

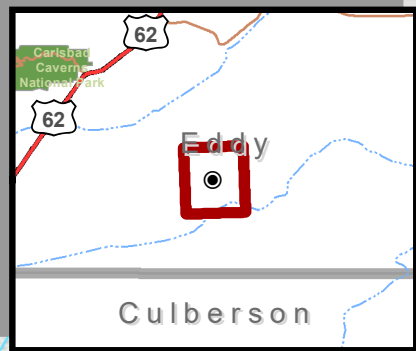
A handwritten signature in blue ink that reads 'Clair Gonzales'.

Clair Gonzales,
Project Manager

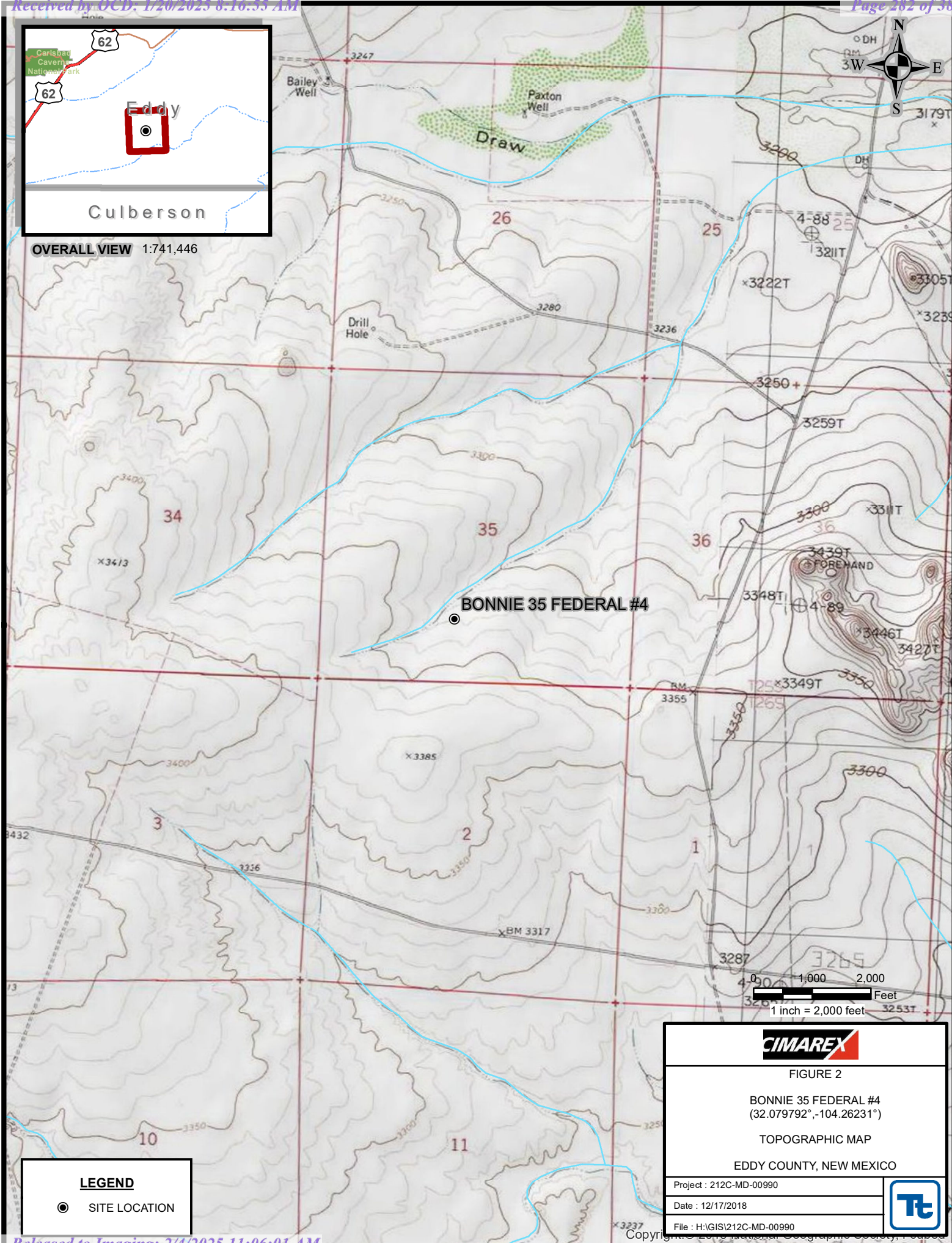
cc: Shelly Tucker – BLM
Maria Pruett - NMOCD

Figures





OVERALL VIEW 1:741,446



LEGEND

● SITE LOCATION

CIMAREX

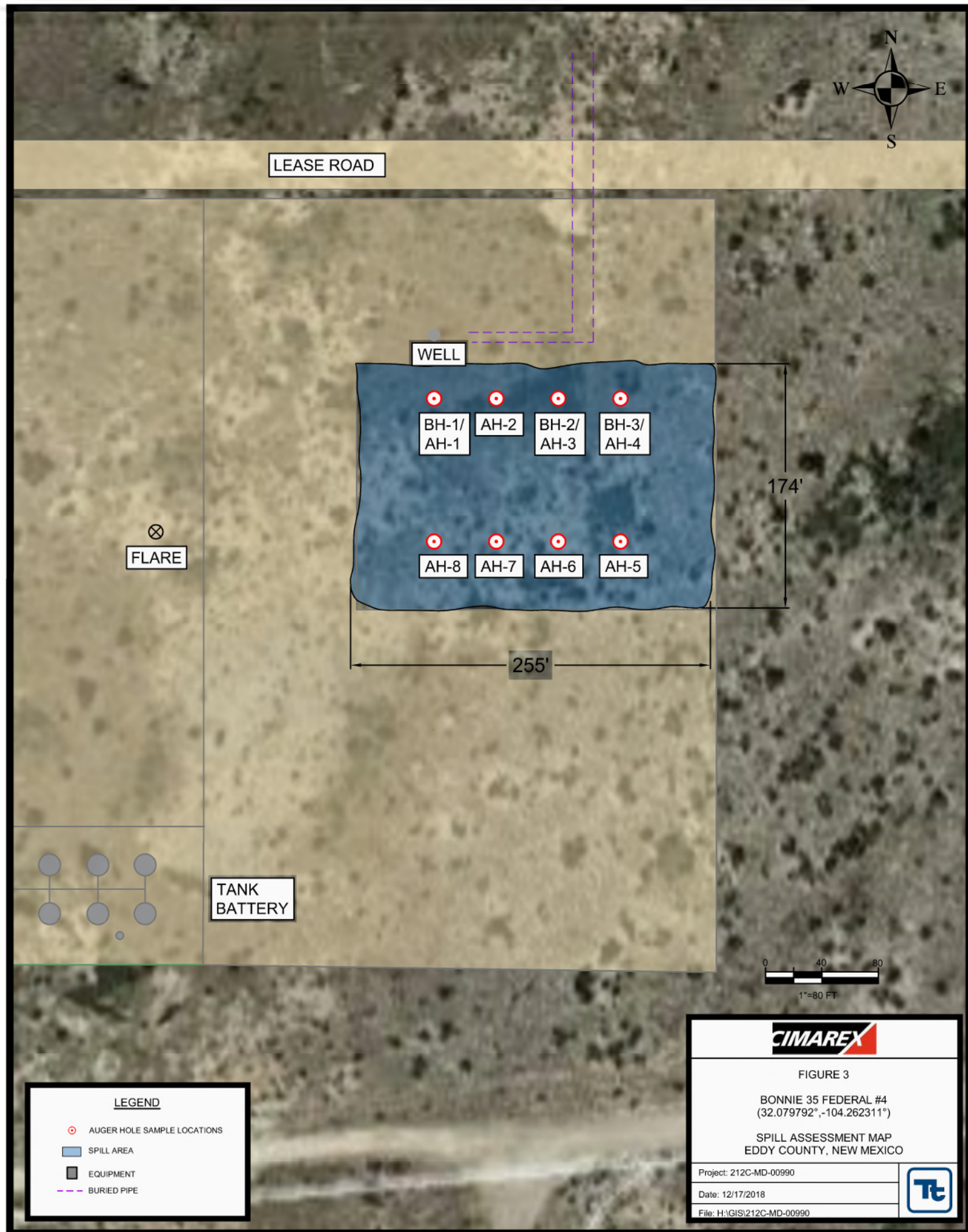
FIGURE 2

BONNIE 35 FEDERAL #4
(32.079792°, -104.26231°)

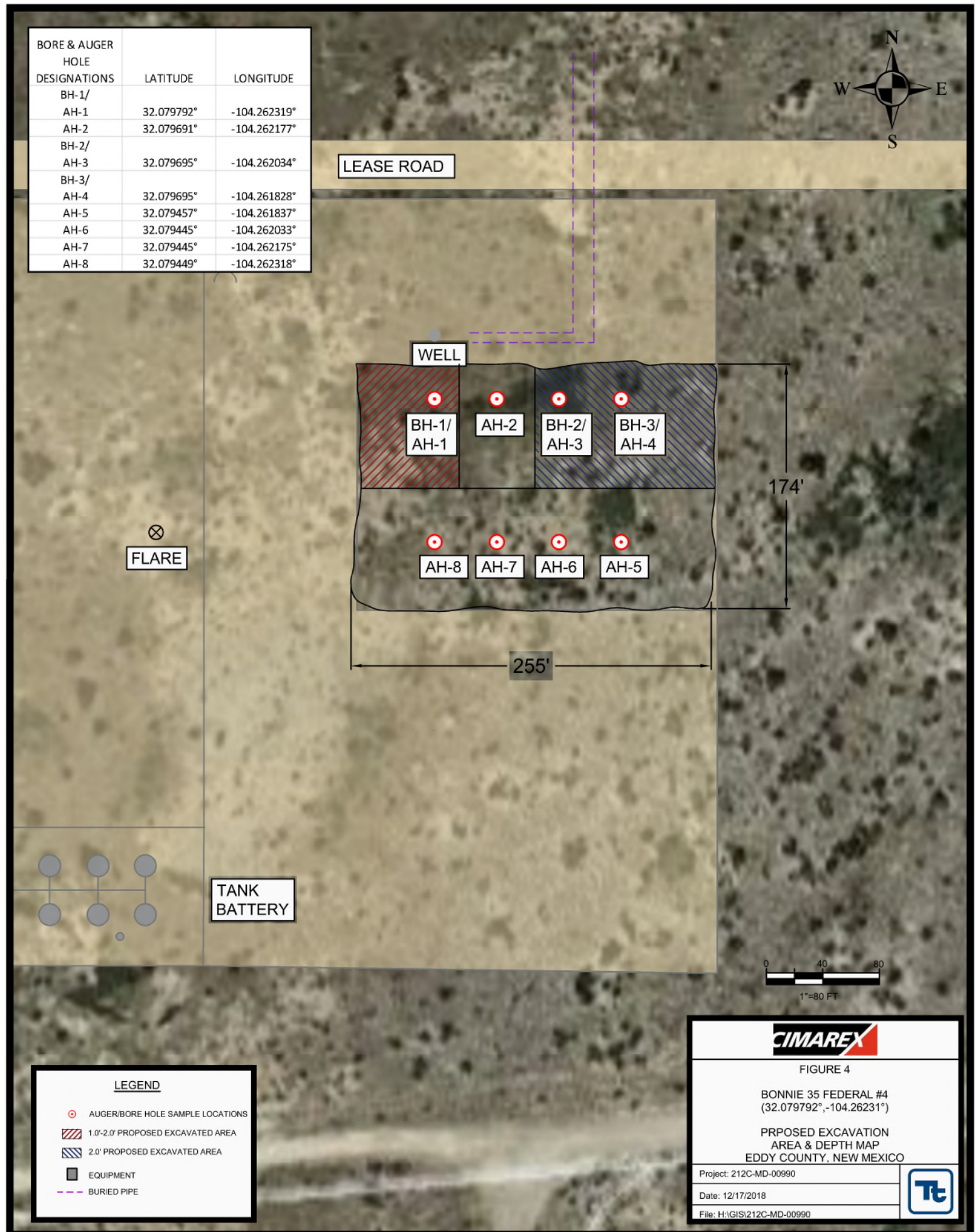
TOPOGRAPHIC MAP

EDDY COUNTY, NEW MEXICO

Project : 212C-MD-00990	
Date : 12/17/2018	
File : H:\GIS\212C-MD-00990	



Drawn By: MISTI MORGAN



Tables

Table 1
Cimarex Energy
Bonnie 35 Federal #4H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	C6-C10	C10-C28	C28-C35	Total						
AH-1	9/20/2018	0-1	X		<15.0	222	39.7	262	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2,470
BH-1	11/30/2018	0-1	X		<15.0	141	39.5	181	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,080
	"	2-3	X		<15.0	28.2	<15.0	28.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	1,390
	"	4-5	X		-	-	-	-	-	-	-	-	-	335
	"	6-7	X		-	-	-	-	-	-	-	-	-	287
AH-2	9/20/2018	0-1	X		<15.0	17.7	<15.0	17.7	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	158
AH-3	9/20/2018	0-1	X		<14.9	<14.9	<14.9	<14.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	2,310
	"	1-1.5	X		<14.9	<14.9	<14.9	<14.9	<0.00200	<0.00200	<0.00200	<0.00200	-	1,650
BH-2	11/30/2018	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	3,180
	"	2-3	X		<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	478
	"	4-5	X		-	-	-	-	-	-	-	-	-	40.7
	"	6-7	X		-	-	-	-	-	-	-	-	-	<5.03
AH-4	9/20/2018	0-1	X		<14.9	<14.9	<14.9	<14.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	3,470
	"	1-1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	1,240
BH-3	11/30/2018	0-1	X		<14.9	<14.9	<14.9	<14.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	531
	"	2-3	X		<14.9	<14.9	<14.9	<14.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	27.1
	"	4-5	X		-	-	-	-	-	-	-	-	-	15.7
	"	6-7	X		-	-	-	-	-	-	-	-	-	16.1

Table 1
Cimarex Energy
Bonnie 35 Federal #4H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	C6-C10	C10-C28	C28-C35	Total						
AH-5	9/20/2018	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	297
AH-6	9/20/2018	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	116
AH-7	9/20/2018	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	90.9
AH-8	9/20/2018	0-6"	X		<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	145
Background	11/30/2018	0-1	X		-	-	-	-	-	-	-	-	-	<4.95
	"	2-3	X		-	-	-	-	-	-	-	-	-	<4.99
	"	4-5	X		-	-	-	-	-	-	-	-	-	28.4
	"	6-7	X		-	-	-	-	-	-	-	-	-	111
	"	9-10	X		-	-	-	-	-	-	-	-	-	77.8
	"	14-15	X		-	-	-	-	-	-	-	-	-	70.1
	"	19-20	X		-	-	-	-	-	-	-	-	-	65.4

(-) Not Analyzed

Photos

Cimarex Energy
Bonnie 35 Federal #4H
Eddy County, New Mexico



View North – Area of AH-1



View East – Area of AH-2

Cimarex Energy
Bonnie 35 Federal #4H
Eddy County, New Mexico



View West – Area of AH-3



View West – Area of AH-4

Cimarex Energy
Bonnie 35 Federal #4H
Eddy County, New Mexico



View West – Area of AH-5



View West – Area of AH-6

Cimarex Energy
Bonnie 35 Federal #4H
Eddy County, New Mexico



View West – Area of AH-7



View West – Area of AH-8

Appendix A

Page 294 of 388
Received by OGD: 1/20/2025 8:16:55 AM
Released to Imaging: 2/4/2025 11:06:01 AM

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

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Cimaxex Energy	Contact Christine Alderman	
Address 600 N Marienfeld Ste 600 Midland TX	Telephone No. 432-853-7059	
Facility Name Bonnie 35 Federal #4	Facility Type production	
Surface Owner BLM	Mineral Owner BLM	API No. 30-015-43619

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	35	25S	26E	330	S	2190	E	Eddy

Latitude 32.04495068 Longitude -104.1547218

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 40 bbls	Volume Recovered 20 bbls
Source of Release tank	Date and Hour of Occurrence 9/8/2017	Date and Hour of Discovery 9/8/2017 8:00 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Shelly Tucker/Crystal Weaver/Mike Bratcher	
By Whom? Christine Alderman	Date and Hour 9/8/2017 3:30 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.

Describe Cause of Problem and Remedial Action Taken.
The auto dump controllers for a sand separator failed causing fluids to overfill tank.

Describe Area Affected and Cleanup Action Taken.
Vacuum truck recovered some fluids from location pad.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: Christine Alderman	OIL CONSERVATION DIVISION	
Printed Name: Christine Alderman	Approved by Environmental Specialist:	
Title: ESH Supervisor	Approval Date:	Expiration Date:
E-mail Address: calderman@cimaxex.com	Conditions of Approval:	Attached ☐
Date: 9/8/2017 Phone: 432-853-7059		

Attach Additional Sheets If Necessary

Callendar 575-302-2149

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
Bonnie 35 Federal #4
Eddy County, New Mexico

24 South			25 East		
6	5 14	4 440	3	2	1
7	209	44	10	11	12
18	17	16	15	14	13 7
19	20	21	22	23	24 163
30	29	28	27	26	25 540
31	32	33	34	35	36 57
			150	500	

24 South			26 East		
6 63	5	4	3	2	1
7 250	8 450	9	10	11	12
18	17	16	15	14 30	13
650				23 38	24 28
19	20	21	22	37	30
30	29 46	28	27 30	26	25
70					
31	32 111	33	34	35	36
	109				

24 South			27 East		
6	5	4	3	2	1
7	8 17	9	10	11	12
18	30	17	16	15	14 30
34					31
19	20	21	22 70	23	24
30	29	28	27	26	25
31	32	33	34	35	36

25 South			25 East		
6	5 30	4 46	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13 39
19	20	21	22	23	24 70
30	29	28	27	26	25
31	32	33	34	35	36

25 South			26 East		
6 125	5	4	3 45	2	1
7 60	8	9 45	10	11	12
60		45			
18	17	16	15	14	13
19	20	21	22 118	23	24
30	29	28 14	27 13	26 10	25
31	32	33	34	35	36
				SITE	

25 South			27 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13 92
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33 19	34	35	36

26 South			25 East		
6	5	4	3	2	1
7	8	9	10	11	12 150
18	17	16	15	14	13
10	29	6			
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

26 South			26 East		
6	5	4	3	2	1
7	8 22	9	10	11	12 12
18	17	16	15	14	13
19	20	21	22 31	23	24
30	29	28	27	26	25
31	32	33	34	35	36

26 South			27 East		
6	5 12	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13 35
19	20	21	22 50	23	24
30	29	28	27	26	25
31	32	33	34	35	36

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)

Geology and Groundwater Resources of Eddy County, NM (Report 3)

34 NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hideNews Bulletins

- [Please see news on new formats](#)
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

site_no list =

- 320625104153201

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

USGS 320625104153201 25S.26E.26.213213

Available data for this site

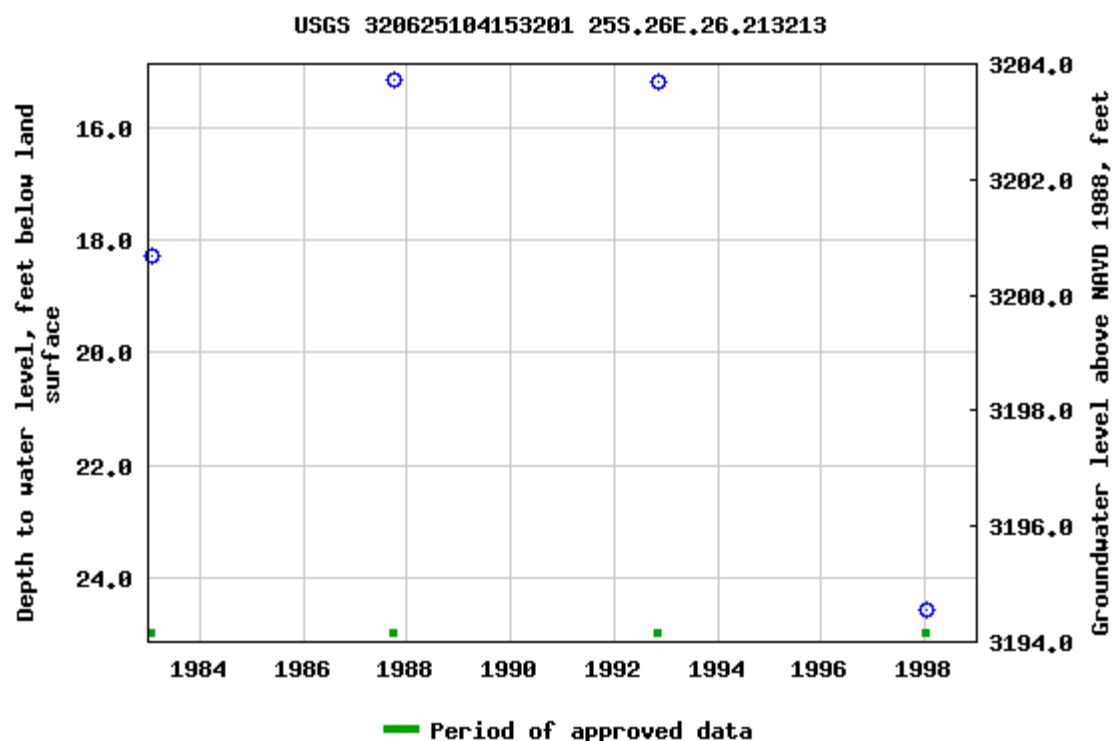
Groundwater: Field measurements

GO

Eddy County, New Mexico
Hydrologic Unit Code --
Latitude 32°06'25", Longitude 104°15'32" NAD27
Land-surface elevation 3,219 feet above NAVD88
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

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Title: Groundwater for New Mexico: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



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

Page Last Modified: 2018-12-13 11:24:35 EST

1.15 1.01 nadww01

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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
C 01013		C	ED				4 25	25S	26E	571505	3551456*	☐	245	
C 01089		C	ED	3	4	1	03	25S	26E	567505	3558398*	☐	96	45 51
C 01368		C	ED		1	1	22	25S	26E	567261	3554059*	☐	143	118 25
C 02220		CUB	ED	3	1	2	26	25S	26E	569598	3552352*	☐	35	
C 02221		CUB	ED	4	3	2	25	25S	26E	571412	3551961*	☐	35	
C 02675		C	ED	1	4	1	09	25S	26E	565907	3556978*	☐	180	45 135
C 03258		C	ED	1	1	4	07	25S	26E	563073	3556546*	☐	360	
C 03285		C	ED	4	4	2	07	25S	26E	563713	3556658	☐	84	60 24
C 03569 POD1		CUB	ED	2	1	1	14	25S	26E	568862	3555746	☐	30	0 30
C 03654 POD1		CUB	ED	2	3	1	24	25S	26E	570654	3553773	☐		
C 03654 POD2		CUB	ED	2	3	1	24	25S	26E	554766	3562304	☐		
C 03655 POD1		CUB	ED				4 22	25S	26E	550692	3561324	☐		
C 03655 POD2		CUB	ED				4 22	25S	26E	550732	3561337	☐		
C 03655 POD3		CUB	ED	1	4	4	22	25S	26E	568458	3553019	☐		
C 03655 POD4		CUB	ED				4 22	25S	26E	550684	3561362	☐		
C 04036 POD1		C	ED	1	4	3	06	25S	26E	562745	3557733	☐	160	125 35
C 04049 POD1		CUB	ED	3	2	3	06	25S	26E	562592	3557864	☐	165	120 45
C 04050 POD1		CUB	ED	1	4	3	06	25S	26E	562695	3557776	☐	165	125 40

Average Depth to Water: **79 feet**

Minimum Depth: **0 feet**

Maximum Depth: **125 feet**

Record Count: 18

PLSS Search:

Township: 25S Range: 26E

*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.

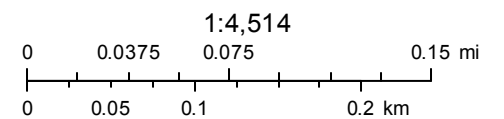
11/28/18 8:10 AM

WATER COLUMN/ AVERAGE DEPTH
TO WATER

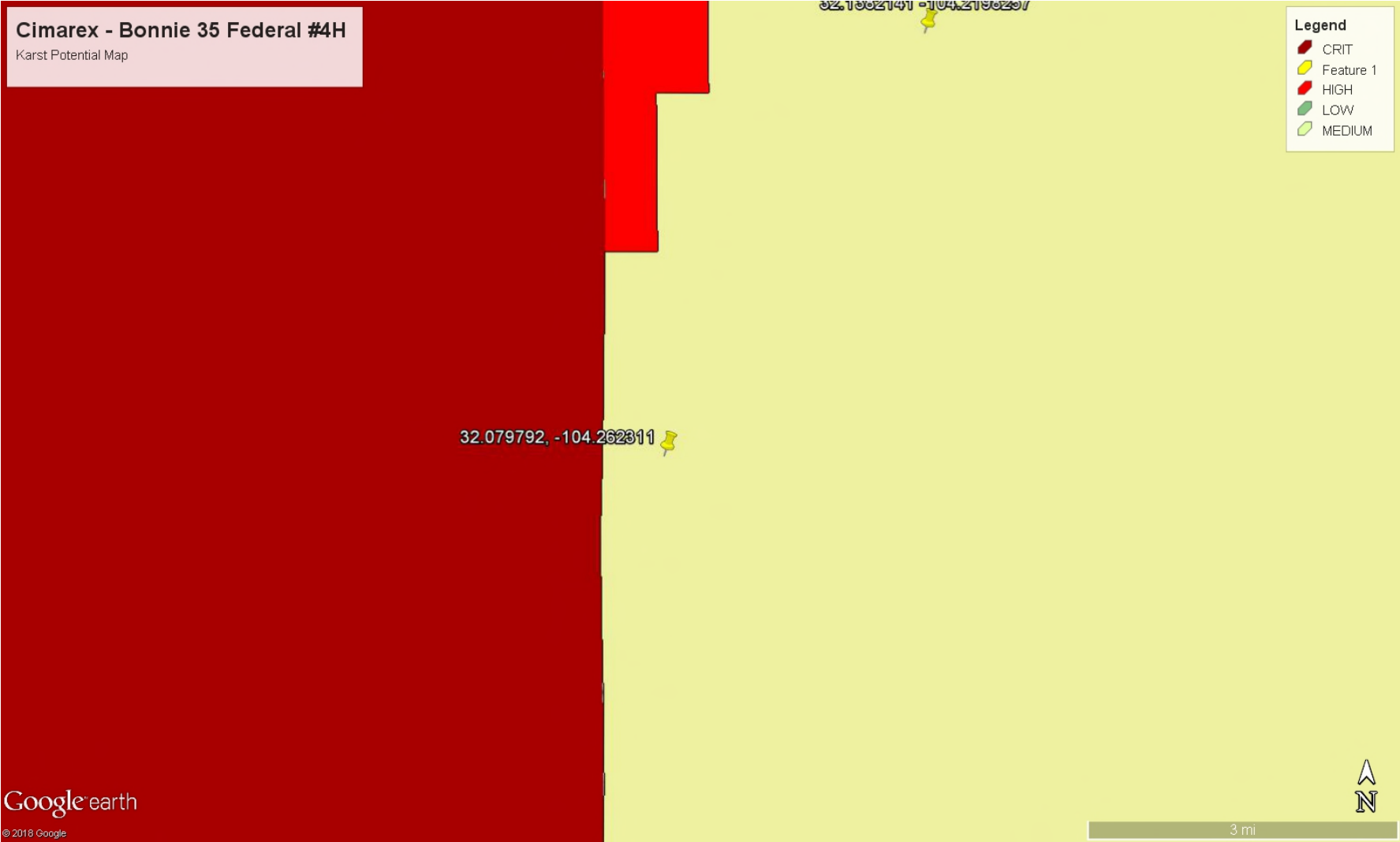
New Mexico NFHL Data



December 13, 2018



FEMA
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,



Appendix C



Certificate of Analysis Summary 599932

Tetra Tech- Midland, Midland, TX

Project Name: Cimarex- Bonnie 35 Fed #4

Project Id: 212C-MD-00990 Task 03
Contact: Clair Gonzales
Project Location: Eddy CO. NM

Date Received in Lab: Fri Sep-21-18 01:15 pm
Report Date: 28-SEP-18
Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	599932-001	599932-002	599932-003	599932-004	599932-005	599932-006
	<i>Field Id:</i>	AH #1 (0-1')	AH #2 (0-1')	AH #3 (0-1')	AH #3 (1-1.5')	AH #4 (0-1')	AH #4 (1-1.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-20-18 00:00	Sep-20-18 00:00	Sep-20-18 00:00	Sep-20-18 00:00	Sep-20-18 00:00	Sep-20-18 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	Sep-24-18 09:00	Sep-24-18 09:00	Sep-24-18 09:00	Sep-24-18 09:00	Sep-24-18 09:00	Sep-24-18 09:00
	<i>Analyzed:</i>	Sep-24-18 14:23	Sep-24-18 16:05	Sep-24-18 16:25	Sep-24-18 16:45	Sep-24-18 17:06	Sep-24-18 17:26
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Toluene		<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Ethylbenzene		<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
m,p-Xylenes		<0.00399 0.00399	<0.00397 0.00397	<0.00403 0.00403	<0.00401 0.00401	<0.00398 0.00398	<0.00398 0.00398
o-Xylene		<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Total Xylenes		<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Total BTEX		<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	Sep-26-18 09:00	Sep-26-18 09:00	Sep-26-18 09:00	Sep-26-18 16:00	Sep-26-18 16:00	Sep-26-18 16:00
	<i>Analyzed:</i>	Sep-26-18 13:24	Sep-26-18 14:50	Sep-26-18 13:36	Sep-26-18 16:39	Sep-26-18 16:55	Sep-26-18 17:00
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2470 100	158 4.98	2310 99.4	1650 63.2	3470 127	1240 63.2
TPH By SW8015 Mod	<i>Extracted:</i>	Sep-21-18 16:00	Sep-21-18 16:00	Sep-21-18 16:00	Sep-21-18 16:00	Sep-21-18 16:00	Sep-21-18 16:00
	<i>Analyzed:</i>	Sep-23-18 00:57	Sep-23-18 01:16	Sep-24-18 11:30	Sep-23-18 01:53	Sep-23-18 02:12	Sep-23-18 02:31
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<14.9 14.9	<14.9 14.9	<14.9 14.9	<15.0 15.0
Diesel Range Organics (DRO)		222 15.0	17.7 15.0	<14.9 14.9	<14.9 14.9	<14.9 14.9	<15.0 15.0
Motor Oil Range Hydrocarbons (MRO)		39.7 15.0	<15.0 15.0	<14.9 14.9	<14.9 14.9	<14.9 14.9	<15.0 15.0
Total TPH		262 15.0	17.7 15.0	<14.9 14.9	<14.9 14.9	<14.9 14.9	<15.0 15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks
Project Manager



Certificate of Analysis Summary 599932

Tetra Tech- Midland, Midland, TX

Project Name: Cimarex- Bonnie 35 Fed #4

Project Id: 212C-MD-00990 Task 03
Contact: Clair Gonzales
Project Location: Eddy CO. NM

Date Received in Lab: Fri Sep-21-18 01:15 pm
Report Date: 28-SEP-18
Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	599932-007	599932-008	599932-009	599932-010		
	<i>Field Id:</i>	AH #5 (0-1')	AH #6 (0-1')	AH #7 (0-1')	AH #8 (0-6')		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Sep-20-18 00:00	Sep-20-18 00:00	Sep-20-18 00:00	Sep-20-18 00:00		
BTEX by EPA 8021B	<i>Extracted:</i>	Sep-24-18 09:00	Sep-24-18 09:00	Sep-24-18 09:00	Sep-24-18 09:00		
	<i>Analyzed:</i>	Sep-24-18 18:45	Sep-24-18 19:05	Sep-24-18 19:26	Sep-24-18 19:46		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201		
Toluene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201		
Ethylbenzene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201		
m,p-Xylenes		<0.00404 0.00404	<0.00399 0.00399	<0.00401 0.00401	<0.00402 0.00402		
o-Xylene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201		
Total Xylenes		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201		
Total BTEX		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201		
Chloride by EPA 300	<i>Extracted:</i>	Sep-26-18 16:00	Sep-26-18 16:00	Sep-26-18 16:00	Sep-26-18 16:00		
	<i>Analyzed:</i>	Sep-26-18 17:06	Sep-27-18 13:50	Sep-27-18 13:56	Sep-27-18 14:02		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		297 63.4	116 6.30	90.9 6.36	145 6.36		
TPH By SW8015 Mod	<i>Extracted:</i>	Sep-21-18 16:00	Sep-21-18 16:00	Sep-21-18 16:00	Sep-21-18 16:00		
	<i>Analyzed:</i>	Sep-23-18 02:49	Sep-23-18 03:08	Sep-23-18 03:27	Sep-23-18 03:45		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0		
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0		
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0		
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks
Project Manager

Analytical Report 599932

for
Tetra Tech- Midland

Project Manager: Clair Gonzales

Cimarex- Bonnie 35 Fed #4

212C-MD-00990 Task 03

28-SEP-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



28-SEP-18

Project Manager: **Clair Gonzales**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **599932**

Cimarex- Bonnie 35 Fed #4

Project Address: Eddy CO. NM

Clair Gonzales:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 599932. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 599932 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink, appearing to read 'Kelsey Brooks', written over a horizontal line.

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 599932****Tetra Tech- Midland, Midland, TX**

Cimarex- Bonnie 35 Fed #4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH #1 (0-1')	S	09-20-18 00:00		599932-001
AH #2 (0-1')	S	09-20-18 00:00		599932-002
AH #3 (0-1')	S	09-20-18 00:00		599932-003
AH #3 (1-1.5')	S	09-20-18 00:00		599932-004
AH #4 (0-1')	S	09-20-18 00:00		599932-005
AH #4 (1-1.5')	S	09-20-18 00:00		599932-006
AH #5 (0-1')	S	09-20-18 00:00		599932-007
AH #6 (0-1')	S	09-20-18 00:00		599932-008
AH #7 (0-1')	S	09-20-18 00:00		599932-009
AH #8 (0-6')	S	09-20-18 00:00		599932-010

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: Cimarex- Bonnie 35 Fed #4**

Project ID: 212C-MD-00990 Task 03
Work Order Number(s): 599932

Report Date: 28-SEP-18
Date Received: 09/21/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3064388 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Lab Sample ID 599932-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 599932-001, -002, -003, -004, -005, -006, -007, -008, -009, -010.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #1 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-001

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 09.00

Basis: Wet Weight

Seq Number: 3064476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2470	100	mg/kg	09.26.18 13.24		20

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.23.18 00.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	222	15.0	mg/kg	09.23.18 00.57		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	39.7	15.0	mg/kg	09.23.18 00.57		1
Total TPH	PHC635	262	15.0	mg/kg	09.23.18 00.57		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	108	%	70-135	09.23.18 00.57		
o-Terphenyl	84-15-1	112	%	70-135	09.23.18 00.57		



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #1 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-001

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.18 14.23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.18 14.23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.18 14.23	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.24.18 14.23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.18 14.23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.18 14.23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.18 14.23	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.24.18 14.23		
4-Bromofluorobenzene	460-00-4	89	%	70-130	09.24.18 14.23		



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #2 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-002

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 09.00

Basis: Wet Weight

Seq Number: 3064476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	158	4.98	mg/kg	09.26.18 14.50		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.23.18 01.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	17.7	15.0	mg/kg	09.23.18 01.16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.23.18 01.16	U	1
Total TPH	PHC635	17.7	15.0	mg/kg	09.23.18 01.16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	09.23.18 01.16	
o-Terphenyl	84-15-1	97	%	70-135	09.23.18 01.16	



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #2 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-002

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.24.18 16.05	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.24.18 16.05	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.24.18 16.05	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.24.18 16.05	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.24.18 16.05	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.24.18 16.05	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.24.18 16.05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.24.18 16.05		
4-Bromofluorobenzene	460-00-4	101	%	70-130	09.24.18 16.05		



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #3 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-003

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 09.00

Basis: Wet Weight

Seq Number: 3064476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2310	99.4	mg/kg	09.26.18 13.36		20

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	09.24.18 11.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	09.24.18 11.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	09.24.18 11.30	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	09.24.18 11.30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	82	%	70-135	09.24.18 11.30		
o-Terphenyl	84-15-1	83	%	70-135	09.24.18 11.30		



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #3 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-003

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.24.18 16.25	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.24.18 16.25	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.24.18 16.25	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.24.18 16.25	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.24.18 16.25	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.24.18 16.25	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.24.18 16.25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	09.24.18 16.25		
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.24.18 16.25		



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #3 (1-1.5')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-004

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 16.00

Basis: Wet Weight

Seq Number: 3064546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1650	63.2	mg/kg	09.26.18 16.39		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	09.23.18 01.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	09.23.18 01.53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	09.23.18 01.53	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	09.23.18 01.53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	91	%	70-135	09.23.18 01.53		
o-Terphenyl	84-15-1	94	%	70-135	09.23.18 01.53		



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #3 (1-1.5')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-004

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.18 16.45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.18 16.45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.18 16.45	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.24.18 16.45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.18 16.45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.18 16.45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.18 16.45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	96	%	70-130	09.24.18 16.45		
4-Bromofluorobenzene	460-00-4	106	%	70-130	09.24.18 16.45		



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #4 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-005

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 16.00

Basis: Wet Weight

Seq Number: 3064546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3470	127	mg/kg	09.26.18 16.55		20

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	09.23.18 02.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	09.23.18 02.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	09.23.18 02.12	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	09.23.18 02.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	09.23.18 02.12	
o-Terphenyl	84-15-1	92	%	70-135	09.23.18 02.12	



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #4 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-005

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.18 17.06	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.18 17.06	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.18 17.06	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.18 17.06	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.18 17.06	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.18 17.06	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.18 17.06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	70-130	09.24.18 17.06		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.24.18 17.06		



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #4 (1-1.5')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-006

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 16.00

Basis: Wet Weight

Seq Number: 3064546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1240	63.2	mg/kg	09.26.18 17.00		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.23.18 02.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.23.18 02.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.23.18 02.31	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.23.18 02.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	09.23.18 02.31	
o-Terphenyl	84-15-1	85	%	70-135	09.23.18 02.31	



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #4 (1-1.5')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-006

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.18 17.26	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.18 17.26	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.18 17.26	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.18 17.26	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.18 17.26	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.18 17.26	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.18 17.26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	09.24.18 17.26		
1,4-Difluorobenzene	540-36-3	103	%	70-130	09.24.18 17.26		



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: AH #5 (0-1')

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-007

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 16.00

Basis: Wet Weight

Seq Number: 3064546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	297	63.4	mg/kg	09.26.18 17.06		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.23.18 02.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.23.18 02.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.23.18 02.49	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.23.18 02.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	09.23.18 02.49	
o-Terphenyl	84-15-1	96	%	70-135	09.23.18 02.49	



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #5 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-007

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.24.18 18.45	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.24.18 18.45	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.24.18 18.45	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	09.24.18 18.45	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.24.18 18.45	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.24.18 18.45	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.24.18 18.45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.24.18 18.45		
4-Bromofluorobenzene	460-00-4	95	%	70-130	09.24.18 18.45		



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #6 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-008

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 16.00

Basis: Wet Weight

Seq Number: 3064546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	116	6.30	mg/kg	09.27.18 13.50		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.23.18 03.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.23.18 03.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.23.18 03.08	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.23.18 03.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	09.23.18 03.08	
o-Terphenyl	84-15-1	92	%	70-135	09.23.18 03.08	



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #6 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-008

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.18 19.05	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.18 19.05	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.18 19.05	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.24.18 19.05	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.18 19.05	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.18 19.05	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.18 19.05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	09.24.18 19.05		
1,4-Difluorobenzene	540-36-3	93	%	70-130	09.24.18 19.05		



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #7 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-009

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 16.00

Basis: Wet Weight

Seq Number: 3064546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	90.9	6.36	mg/kg	09.27.18 13.56		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.23.18 03.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.23.18 03.27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.23.18 03.27	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.23.18 03.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	09.23.18 03.27	
o-Terphenyl	84-15-1	103	%	70-135	09.23.18 03.27	



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #7 (0-1')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-009

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.18 19.26	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.18 19.26	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.18 19.26	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.24.18 19.26	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.18 19.26	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.18 19.26	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.18 19.26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	09.24.18 19.26		
1,4-Difluorobenzene	540-36-3	104	%	70-130	09.24.18 19.26		



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #8 (0-6')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-010

Date Collected: 09.20.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.26.18 16.00

Basis: Wet Weight

Seq Number: 3064546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	145	6.36	mg/kg	09.27.18 14.02		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.18 16.00

Basis: Wet Weight

Seq Number: 3064217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.23.18 03.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.23.18 03.45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.23.18 03.45	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.23.18 03.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	09.23.18 03.45	
o-Terphenyl	84-15-1	103	%	70-135	09.23.18 03.45	



Certificate of Analytical Results 599932

Tetra Tech- Midland, Midland, TX

Cimarex- Bonnie 35 Fed #4

Sample Id: **AH #8 (0-6')**

Matrix: Soil

Date Received: 09.21.18 13.15

Lab Sample Id: 599932-010

Date Collected: 09.20.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.24.18 09.00

Basis: Wet Weight

Seq Number: 3064388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.24.18 19.46	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.24.18 19.46	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.24.18 19.46	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.24.18 19.46	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.24.18 19.46	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.24.18 19.46	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.24.18 19.46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.24.18 19.46		
1,4-Difluorobenzene	540-36-3	95	%	70-130	09.24.18 19.46		



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Tetra Tech- Midland
Cimarex- Bonnie 35 Fed #4

Analytical Method: Chloride by EPA 300

Seq Number: 3064476

MB Sample Id: 7663020-1-BLK

Matrix: Solid

LCS Sample Id: 7663020-1-BKS

Prep Method: E300P

Date Prep: 09.26.18

LCSD Sample Id: 7663020-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	251	100	252	101	90-110	0	20	mg/kg	09.26.18 11:05	

Analytical Method: Chloride by EPA 300

Seq Number: 3064546

MB Sample Id: 7663046-1-BLK

Matrix: Solid

LCS Sample Id: 7663046-1-BKS

Prep Method: E300P

Date Prep: 09.26.18

LCSD Sample Id: 7663046-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	251	100	256	102	90-110	2	20	mg/kg	09.26.18 16:10	

Analytical Method: Chloride by EPA 300

Seq Number: 3064476

Parent Sample Id: 600016-013

Matrix: Soil

MS Sample Id: 600016-013 S

Prep Method: E300P

Date Prep: 09.26.18

MSD Sample Id: 600016-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	28.7	248	283	103	283	103	90-110	0	20	mg/kg	09.26.18 11:31	

Analytical Method: Chloride by EPA 300

Seq Number: 3064476

Parent Sample Id: 600018-013

Matrix: Soil

MS Sample Id: 600018-013 S

Prep Method: E300P

Date Prep: 09.26.18

MSD Sample Id: 600018-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	51.1	250	297	98	301	100	90-110	1	20	mg/kg	09.26.18 12:50	

Analytical Method: Chloride by EPA 300

Seq Number: 3064546

Parent Sample Id: 600111-002

Matrix: Soil

MS Sample Id: 600111-002 S

Prep Method: E300P

Date Prep: 09.26.18

MSD Sample Id: 600111-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	772	317	1060	91	1060	91	90-110	0	20	mg/kg	09.26.18 16:27	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 $\text{Log Diff.} = \text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Tetra Tech- Midland
Cimarex- Bonnie 35 Fed #4

Analytical Method: Chloride by EPA 300

Seq Number: 3064546

Parent Sample Id: 600267-002

Matrix: Soil

MS Sample Id: 600267-002 S

Prep Method: E300P

Date Prep: 09.26.18

MSD Sample Id: 600267-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	83.3	317	435	111	434	111	90-110	0	20	mg/kg	09.26.18 17:57	X

Analytical Method: TPH By SW8015 Mod

Seq Number: 3064217

MB Sample Id: 7662837-1-BLK

Matrix: Solid

LCS Sample Id: 7662837-1-BKS

Prep Method: TX1005P

Date Prep: 09.21.18

LCSD Sample Id: 7662837-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	954	95	1020	102	70-135	7	20	mg/kg	09.22.18 19:59	
Diesel Range Organics (DRO)	<8.13	1000	996	100	1060	106	70-135	6	20	mg/kg	09.22.18 19:59	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	99		120		127		70-135	%	09.22.18 19:59
o-Terphenyl	103		124		119		70-135	%	09.22.18 19:59

Analytical Method: TPH By SW8015 Mod

Seq Number: 3064217

Parent Sample Id: 599886-001

Matrix: Soil

MS Sample Id: 599886-001 S

Prep Method: TX1005P

Date Prep: 09.21.18

MSD Sample Id: 599886-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<7.99	999	866	87	875	88	70-135	1	20	mg/kg	09.22.18 20:55	
Diesel Range Organics (DRO)	21.5	999	896	88	920	90	70-135	3	20	mg/kg	09.22.18 20:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	124		127		70-135	%	09.22.18 20:55
o-Terphenyl	121		123		70-135	%	09.22.18 20:55

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = $\text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Tetra Tech- Midland
Cimarex- Bonnie 35 Fed #4

Analytical Method: BTEX by EPA 8021B

Seq Number: 3064388

MB Sample Id: 7662979-1-BLK

Matrix: Solid

LCS Sample Id: 7662979-1-BKS

Prep Method: SW5030B

Date Prep: 09.24.18

LCSD Sample Id: 7662979-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.116	116	0.111	111	70-130	4	35	mg/kg	09.24.18 12:22	
Toluene	<0.00199	0.0996	0.109	109	0.105	105	70-130	4	35	mg/kg	09.24.18 12:22	
Ethylbenzene	<0.00199	0.0996	0.107	107	0.102	102	70-130	5	35	mg/kg	09.24.18 12:22	
m,p-Xylenes	<0.00398	0.199	0.212	107	0.202	101	70-130	5	35	mg/kg	09.24.18 12:22	
o-Xylene	<0.00199	0.0996	0.0967	97	0.0943	94	70-130	3	35	mg/kg	09.24.18 12:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		95		70-130	%	09.24.18 12:22
4-Bromofluorobenzene	99		114		83		70-130	%	09.24.18 12:22

Analytical Method: BTEX by EPA 8021B

Seq Number: 3064388

Parent Sample Id: 599932-001

Matrix: Soil

MS Sample Id: 599932-001 S

Prep Method: SW5030B

Date Prep: 09.24.18

MSD Sample Id: 599932-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0604	61	0.0659	66	70-130	9	35	mg/kg	09.24.18 13:03	X
Toluene	<0.00200	0.0998	0.0517	52	0.0619	62	70-130	18	35	mg/kg	09.24.18 13:03	X
Ethylbenzene	<0.00200	0.0998	0.0429	43	0.0513	51	70-130	18	35	mg/kg	09.24.18 13:03	X
m,p-Xylenes	<0.00399	0.200	0.0838	42	0.102	51	70-130	20	35	mg/kg	09.24.18 13:03	X
o-Xylene	<0.00200	0.0998	0.0411	41	0.0491	49	70-130	18	35	mg/kg	09.24.18 13:03	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		87		70-130	%	09.24.18 13:03
4-Bromofluorobenzene	90		92		70-130	%	09.24.18 13:03

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * [(C - E) / (C + E)]$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Suite
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

599932

Page 1 of 1

Project Name:		Bonnie 35 Fed #4		Project #:		212C-MD-00990 Task 03																																																							
Project Location:		Eddy CO. NM		Project #:		212C-MD-00990 Task 03																																																							
Invoice to:		Cimarex Attn: Christine Alderman		Sampler Signature:		Conner Moehring																																																							
Receiving Laboratory:		Xenco		Sampler Signature:		Conner Moehring																																																							
Comments:																																																													
LAB # (LAB USE ONLY)		SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS		FILTERED (Y/N)		LAB USE ONLY		REMARKS:																																													
		AH #1 (0-1')		9/20/2018		TIME		WATER		SOIL		HCL		HNO ₃		ICE		None		1 N		X		BTX 8021B BTX 8260B		TPH TX1005 (Ext to C35)		TPH 8015M (GRO - DRO - ORO - MRO)		PAH 8270C		Total Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Volatiles		TCLP Semi Volatiles		RCI		GC/MS Vol. 8260B / 624		GC/MS Semi. Vol. 8270C/625		PCB's 8082 / 608		NORM		PLM (Asbestos)		Chloride		Chloride Sulfate TDS		General Water Chemistry (see attached list)		Anion/Cation Balance		Hold	
		AH #2 (0-1')		9/20/2018				X						X						1 N		X		X		TPH 8015M (GRO - DRO - ORO - MRO)		PAH 8270C		Total Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Volatiles		TCLP Semi Volatiles		RCI		GC/MS Vol. 8260B / 624		GC/MS Semi. Vol. 8270C/625		PCB's 8082 / 608		NORM		PLM (Asbestos)		Chloride		Chloride Sulfate TDS		General Water Chemistry (see attached list)		Anion/Cation Balance		Hold			
		AH #3 (0-1')		9/20/2018				X						X						1 N		X		X		TPH 8015M (GRO - DRO - ORO - MRO)		PAH 8270C		Total Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Volatiles		TCLP Semi Volatiles		RCI		GC/MS Vol. 8260B / 624		GC/MS Semi. Vol. 8270C/625		PCB's 8082 / 608		NORM		PLM (Asbestos)		Chloride		Chloride Sulfate TDS		General Water Chemistry (see attached list)		Anion/Cation Balance		Hold			
		AH #3 (1-1.5')		9/20/2018				X						X						1 N		X		X		TPH 8015M (GRO - DRO - ORO - MRO)		PAH 8270C		Total Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Volatiles		TCLP Semi Volatiles		RCI		GC/MS Vol. 8260B / 624		GC/MS Semi. Vol. 8270C/625		PCB's 8082 / 608		NORM		PLM (Asbestos)		Chloride		Chloride Sulfate TDS		General Water Chemistry (see attached list)		Anion/Cation Balance		Hold			
		AH #4 (0-1')		9/20/2018				X						X						1 N		X		X		TPH 8015M (GRO - DRO - ORO - MRO)		PAH 8270C		Total Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Volatiles		TCLP Semi Volatiles		RCI		GC/MS Vol. 8260B / 624		GC/MS Semi. Vol. 8270C/625		PCB's 8082 / 608		NORM		PLM (Asbestos)		Chloride		Chloride Sulfate TDS		General Water Chemistry (see attached list)		Anion/Cation Balance		Hold			
		AH #4 (1-1.5')		9/20/2018				X						X						1 N		X		X		TPH 8015M (GRO - DRO - ORO - MRO)		PAH 8270C		Total Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Volatiles		TCLP Semi Volatiles		RCI		GC/MS Vol. 8260B / 624		GC/MS Semi. Vol. 8270C/625		PCB's 8082 / 608		NORM		PLM (Asbestos)		Chloride		Chloride Sulfate TDS		General Water Chemistry (see attached list)		Anion/Cation Balance		Hold			
		AH #5 (0-1')		9/20/2018				X						X						1 N		X		X		TPH 8015M (GRO - DRO - ORO - MRO)		PAH 8270C		Total Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Volatiles		TCLP Semi Volatiles		RCI		GC/MS Vol. 8260B / 624		GC/MS Semi. Vol. 8270C/625		PCB's 8082 / 608		NORM		PLM (Asbestos)		Chloride		Chloride Sulfate TDS		General Water Chemistry (see attached list)		Anion/Cation Balance		Hold			
		AH #6 (0-1')		9/20/2018				X						X						1 N		X		X		TPH 8015M (GRO - DRO - ORO - MRO)		PAH 8270C		Total Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Volatiles		TCLP Semi Volatiles		RCI		GC/MS Vol. 8260B / 624		GC/MS Semi. Vol. 8270C/625		PCB's 8082 / 608		NORM		PLM (Asbestos)		Chloride		Chloride Sulfate TDS		General Water Chemistry (see attached list)		Anion/Cation Balance		Hold			
		AH #7 (0-1')		9/20/2018				X						X						1 N		X		X		TPH 8015M (GRO - DRO - ORO - MRO)		PAH 8270C		Total Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Volatiles		TCLP Semi Volatiles		RCI		GC/MS Vol. 8260B / 624		GC/MS Semi. Vol. 8270C/625		PCB's 8082 / 608		NORM		PLM (Asbestos)		Chloride		Chloride Sulfate TDS		General Water Chemistry (see attached list)		Anion/Cation Balance		Hold			
		AH #8 (0-6')		9/20/2																																																									

ORIGINAL COPY



Client: Tetra Tech- Midland

Date/ Time Received: 09/21/2018 01:15:00 PM

Work Order #: 599932

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Shawnee Gomez

Date: 09/21/2018

Checklist reviewed by:

Kelsey Brooks

Date: 09/25/2018



Certificate of Analysis Summary 607198

Tetra Tech- Midland, Midland, TX

Project Name: Cimarex Bonnie 35 Federal #4

Project Id: 212C-MD-00990.03
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Mon Dec-03-18 11:10 am
Report Date: 12-DEC-18
Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	607198-001	607198-002	607198-003	607198-004	607198-008	607198-009
	<i>Field Id:</i>	BH #1 (0'-1')	BH #1 (2'-3')	BH #1 (4'-5')	BH #1 (6'-7')	BH #2 (0'-1')	BH #2 (2'-3')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	Dec-07-18 15:00	Dec-07-18 15:00			Dec-07-18 15:00	Dec-07-18 15:00
	<i>Analyzed:</i>	Dec-08-18 14:57	Dec-08-18 15:16			Dec-08-18 15:35	Dec-08-18 16:49
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL			mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00201 0.00201			<0.00199 0.00199	<0.00201 0.00201
Toluene		<0.00200 0.00200	<0.00201 0.00201			<0.00199 0.00199	<0.00201 0.00201
Ethylbenzene		<0.00200 0.00200	<0.00201 0.00201			<0.00199 0.00199	<0.00201 0.00201
m,p-Xylenes		<0.00399 0.00399	<0.00402 0.00402			<0.00398 0.00398	<0.00402 0.00402
o-Xylene		<0.00200 0.00200	<0.00201 0.00201			<0.00199 0.00199	<0.00201 0.00201
Total Xylenes		<0.00200 0.00200	<0.00201 0.00201			<0.00199 0.00199	<0.00201 0.00201
Total BTEX		<0.00200 0.00200	<0.00201 0.00201			<0.00199 0.00199	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	Dec-04-18 16:00	Dec-04-18 16:00	Dec-05-18 11:00	Dec-05-18 11:00	Dec-04-18 16:00	Dec-04-18 16:00
	<i>Analyzed:</i>	Dec-05-18 00:56	Dec-05-18 01:03	Dec-05-18 15:37	Dec-05-18 15:43	Dec-05-18 01:09	Dec-05-18 01:15
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1080 49.9	1390 49.7	335 50.0	287 50.0	3180 49.5	478 49.9
TPH By SW8015 Mod	<i>Extracted:</i>	Dec-03-18 14:00	Dec-03-18 14:00			Dec-03-18 14:00	Dec-03-18 14:00
	<i>Analyzed:</i>	Dec-03-18 17:36	Dec-03-18 17:55			Dec-03-18 18:14	Dec-03-18 18:33
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL			mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0			<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		141 15.0	28.2 15.0			<15.0 15.0	<15.0 15.0
Motor Oil Range Hydrocarbons (MRO)		39.5 15.0	<15.0 15.0			<15.0 15.0	<15.0 15.0
Total TPH		181 15.0	28.2 15.0			<15.0 15.0	<15.0 15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Kelsey Brooks
Project Manager



Certificate of Analysis Summary 607198

Tetra Tech- Midland, Midland, TX

Project Name: Cimarex Bonnie 35 Federal #4

Project Id: 212C-MD-00990.03
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Mon Dec-03-18 11:10 am
Report Date: 12-DEC-18
Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	607198-010	607198-011	607198-015	607198-016	607198-017	607198-018
	<i>Field Id:</i>	BH #2 (4'-5')	BH #2 (6'-7')	BH #3 (0-1')	BH #3 (2'-3')	BH #3 (4'-5")	BH #3 (6'-7')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00
BTEX by EPA 8021B	<i>Extracted:</i>			Dec-07-18 15:30	Dec-07-18 15:30		
	<i>Analyzed:</i>			Dec-07-18 19:41	Dec-07-18 20:03		
	<i>Units/RL:</i>			mg/kg RL	mg/kg RL		
Benzene				<0.00200 0.00200	<0.00199 0.00199		
Toluene				<0.00200 0.00200	<0.00199 0.00199		
Ethylbenzene				<0.00200 0.00200	<0.00199 0.00199		
m,p-Xylenes				<0.00401 0.00401	<0.00398 0.00398		
o-Xylene				<0.00200 0.00200	<0.00199 0.00199		
Total Xylenes				<0.00200 0.00200	<0.00199 0.00199		
Total BTEX				<0.00200 0.00200	<0.00199 0.00199		
Chloride by EPA 300	<i>Extracted:</i>	Dec-05-18 11:00	Dec-05-18 11:00	Dec-04-18 16:00	Dec-04-18 16:00	Dec-05-18 11:00	Dec-05-18 11:00
	<i>Analyzed:</i>	Dec-06-18 12:12	Dec-06-18 12:18	Dec-05-18 01:34	Dec-11-18 11:58	Dec-06-18 12:25	Dec-06-18 12:31
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		40.7 5.00	<5.03 5.03	531 49.5	27.1 4.95	15.7 4.96	16.1 4.95
TPH By SW8015 Mod	<i>Extracted:</i>			Dec-03-18 14:00	Dec-03-18 14:00		
	<i>Analyzed:</i>			Dec-03-18 18:52	Dec-03-18 19:11		
	<i>Units/RL:</i>			mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)				<14.9 14.9	<14.9 14.9		
Diesel Range Organics (DRO)				<14.9 14.9	<14.9 14.9		
Motor Oil Range Hydrocarbons (MRO)				<14.9 14.9	<14.9 14.9		
Total TPH				<14.9 14.9	<14.9 14.9		

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Kelsey Brooks
Project Manager



Certificate of Analysis Summary 607198

Tetra Tech- Midland, Midland, TX

Project Name: Cimarex Bonnie 35 Federal #4

Project Id: 212C-MD-00990.03
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Mon Dec-03-18 11:10 am
Report Date: 12-DEC-18
Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	607198-022	607198-023	607198-024	607198-025	607198-026	607198-027
	<i>Field Id:</i>	Background (0'-1')	Background (2'-3')	Background (4'-5')	Background (6'-7')	Background (9'-10')	Background (14'-15')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00	Nov-30-18 00:00
Chloride by EPA 300	<i>Extracted:</i>	Dec-04-18 16:00	Dec-04-18 16:00	Dec-05-18 11:00	Dec-05-18 11:00	Dec-05-18 11:00	Dec-11-18 12:00
	<i>Analyzed:</i>	Dec-05-18 09:23	Dec-11-18 12:04	Dec-06-18 12:37	Dec-05-18 16:51	Dec-11-18 12:10	Dec-11-18 13:49
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<4.95 4.95	<4.99 4.99	28.4 4.96	111 49.6	77.8 4.97	70.1 4.95

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Kelsey Brooks
Project Manager



Certificate of Analysis Summary 607198

Tetra Tech- Midland, Midland, TX

Project Name: Cimarex Bonnie 35 Federal #4

Project Id: 212C-MD-00990.03
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Mon Dec-03-18 11:10 am
Report Date: 12-DEC-18
Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	607198-028					
	Field Id:	Background (19'-20')					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Nov-30-18 00:00					
Chloride by EPA 300	Extracted:	Dec-05-18 17:05					
	Analyzed:	Dec-11-18 12:16					
	Units/RL:	mg/kg RL					
Chloride		65.4 4.98					

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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Kelsey Brooks
Project Manager

Analytical Report 607198

for
Tetra Tech- Midland

Project Manager: Clair Gonzales

Cimarex Bonnie 35 Federal #4

212C-MD-00990.03

12-DEC-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



12-DEC-18

Project Manager: **Clair Gonzales**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **607198**

Cimarex Bonnie 35 Federal #4

Project Address: Eddy County, New Mexico

Clair Gonzales:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 607198. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 607198 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink, appearing to read 'Kelsey Brooks', written over a horizontal line.

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Sample Cross Reference 607198

Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH #1 (0-1')	S	11-30-18 00:00		607198-001
BH #1 (2'-3')	S	11-30-18 00:00		607198-002
BH #1 (4'-5')	S	11-30-18 00:00		607198-003
BH #1 (6'-7')	S	11-30-18 00:00		607198-004
BH #2 (0-1')	S	11-30-18 00:00		607198-008
BH #2 (2'-3')	S	11-30-18 00:00		607198-009
BH #2 (4'-5')	S	11-30-18 00:00		607198-010
BH #2 (6'-7')	S	11-30-18 00:00		607198-011
BH #3 (0-1')	S	11-30-18 00:00		607198-015
BH #3 (2'-3')	S	11-30-18 00:00		607198-016
BH #3 (4'-5")	S	11-30-18 00:00		607198-017
BH #3 (6'-7')	S	11-30-18 00:00		607198-018
Background (0-1')	S	11-30-18 00:00		607198-022
Background (2'-3')	S	11-30-18 00:00		607198-023
Background (4'-5')	S	11-30-18 00:00		607198-024
Background (6'-7')	S	11-30-18 00:00		607198-025
Background (9'-10')	S	11-30-18 00:00		607198-026
Background (14'-15')	S	11-30-18 00:00		607198-027
Background (19'-20')	S	11-30-18 00:00		607198-028
BH #1 (9'-10')	S	11-30-18 00:00		Not Analyzed
BH #1 (14'-15')	S	11-30-18 00:00		Not Analyzed
BH # (19-20')	S	11-30-18 00:00		Not Analyzed
BH #2 (9'-10')	S	11-30-18 00:00		Not Analyzed
BH #2 (14'-15')	S	11-30-18 00:00		Not Analyzed
BH #2 (19'-20')	S	11-30-18 00:00		Not Analyzed
BH #3 (9'-10')	S	11-30-18 00:00		Not Analyzed
BH #3 (14-15')	S	11-30-18 00:00		Not Analyzed
BH #3 (19-20')	S	11-30-18 00:00		Not Analyzed



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Cimarex Bonnie 35 Federal #4

Project ID: 212C-MD-00990.03
Work Order Number(s): 607198

Report Date: 12-DEC-18
Date Received: 12/03/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3072194 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3072214 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Ethylbenzene, m,p-Xylenes, o-Xylene RPD was outside laboratory control limits.

Samples in the analytical batch are: 607198-001, -002, -008, -009



Certificate of Analytical Results 607198

Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #1 (0-1')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-001

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.04.18 16.00

Basis: Wet Weight

Seq Number: 3071672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1080	49.9	mg/kg	12.05.18 00.56		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 12.03.18 14.00

Basis: Wet Weight

Seq Number: 3071595

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.03.18 17.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	141	15.0	mg/kg	12.03.18 17.36		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	39.5	15.0	mg/kg	12.03.18 17.36		1
Total TPH	PHC635	181	15.0	mg/kg	12.03.18 17.36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	12.03.18 17.36	
o-Terphenyl	84-15-1	97	%	70-135	12.03.18 17.36	



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #1 (0-1')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-001

Date Collected: 11.30.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 12.07.18 15.00

Basis: Wet Weight

Seq Number: 3072214

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.08.18 14.57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.08.18 14.57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.08.18 14.57	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.08.18 14.57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.08.18 14.57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.08.18 14.57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.08.18 14.57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	81	%	70-130	12.08.18 14.57		
1,4-Difluorobenzene	540-36-3	121	%	70-130	12.08.18 14.57		



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #1 (2'-3')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-002

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.04.18 16.00

Basis: Wet Weight

Seq Number: 3071672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1390	49.7	mg/kg	12.05.18 01.03		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 12.03.18 14.00

Basis: Wet Weight

Seq Number: 3071595

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.03.18 17.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	28.2	15.0	mg/kg	12.03.18 17.55		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.03.18 17.55	U	1
Total TPH	PHC635	28.2	15.0	mg/kg	12.03.18 17.55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	12.03.18 17.55	
o-Terphenyl	84-15-1	91	%	70-135	12.03.18 17.55	



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #1 (2'-3')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-002

Date Collected: 11.30.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 12.07.18 15.00

Basis: Wet Weight

Seq Number: 3072214

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.08.18 15.16	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.08.18 15.16	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.08.18 15.16	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.08.18 15.16	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.08.18 15.16	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.08.18 15.16	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.08.18 15.16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	88	%	70-130	12.08.18 15.16		
1,4-Difluorobenzene	540-36-3	107	%	70-130	12.08.18 15.16		



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #1 (4'-5')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-003

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 11.00

Basis: Wet Weight

Seq Number: 3071841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	335	50.0	mg/kg	12.05.18 15.37		10



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #1 (6'-7')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-004

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 11.00

Basis: Wet Weight

Seq Number: 3071841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	287	50.0	mg/kg	12.05.18 15.43		10



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #2 (0-1')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-008

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.04.18 16.00

Basis: Wet Weight

Seq Number: 3071672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3180	49.5	mg/kg	12.05.18 01.09		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 12.03.18 14.00

Basis: Wet Weight

Seq Number: 3071595

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.03.18 18.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.03.18 18.14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.03.18 18.14	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.03.18 18.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	12.03.18 18.14	
o-Terphenyl	84-15-1	93	%	70-135	12.03.18 18.14	



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #2 (0-1')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-008

Date Collected: 11.30.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 12.07.18 15.00

Basis: Wet Weight

Seq Number: 3072214

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.08.18 15.35	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.08.18 15.35	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.08.18 15.35	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.08.18 15.35	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.08.18 15.35	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.08.18 15.35	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.08.18 15.35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	79	%	70-130	12.08.18 15.35		
1,4-Difluorobenzene	540-36-3	118	%	70-130	12.08.18 15.35		



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #2 (2'-3')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-009

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.04.18 16.00

Basis: Wet Weight

Seq Number: 3071672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	478	49.9	mg/kg	12.05.18 01.15		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 12.03.18 14.00

Basis: Wet Weight

Seq Number: 3071595

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.03.18 18.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.03.18 18.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.03.18 18.33	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.03.18 18.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	12.03.18 18.33	
o-Terphenyl	84-15-1	91	%	70-135	12.03.18 18.33	



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #2 (2'-3')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-009

Date Collected: 11.30.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 12.07.18 15.00

Basis: Wet Weight

Seq Number: 3072214

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.08.18 16.49	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.08.18 16.49	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.08.18 16.49	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.08.18 16.49	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.08.18 16.49	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.08.18 16.49	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.08.18 16.49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	81	%	70-130	12.08.18 16.49		
1,4-Difluorobenzene	540-36-3	112	%	70-130	12.08.18 16.49		



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #2 (4'-5')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-010

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 11.00

Basis: Wet Weight

Seq Number: 3071841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	40.7	5.00	mg/kg	12.06.18 12.12		1



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #2 (6'-7')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-011

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 11.00

Basis: Wet Weight

Seq Number: 3071841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.03	5.03	mg/kg	12.06.18 12.18	U	1



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Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #3 (0-1')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-015

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.04.18 16.00

Basis: Wet Weight

Seq Number: 3071672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	531	49.5	mg/kg	12.05.18 01.34		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 12.03.18 14.00

Basis: Wet Weight

Seq Number: 3071595

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	12.03.18 18.52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	12.03.18 18.52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	12.03.18 18.52	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	12.03.18 18.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	12.03.18 18.52	
o-Terphenyl	84-15-1	91	%	70-135	12.03.18 18.52	



Certificate of Analytical Results 607198

Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #3 (0-1')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-015

Date Collected: 11.30.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 12.07.18 15.30

Basis: Wet Weight

Seq Number: 3072194

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.07.18 19.41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.07.18 19.41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.07.18 19.41	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.07.18 19.41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.07.18 19.41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.07.18 19.41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.07.18 19.41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	12.07.18 19.41		
1,4-Difluorobenzene	540-36-3	102	%	70-130	12.07.18 19.41		



Certificate of Analytical Results 607198

Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #3 (2'-3')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-016

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.04.18 16.00

Basis: Wet Weight

Seq Number: 3071672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27.1	4.95	mg/kg	12.11.18 11.58		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 12.03.18 14.00

Basis: Wet Weight

Seq Number: 3071595

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	12.03.18 19.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	12.03.18 19.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	12.03.18 19.11	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	12.03.18 19.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	12.03.18 19.11	
o-Terphenyl	84-15-1	82	%	70-135	12.03.18 19.11	



Certificate of Analytical Results 607198

Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #3 (2'-3')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-016

Date Collected: 11.30.18 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 12.07.18 15.30

Basis: Wet Weight

Seq Number: 3072194

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.07.18 20.03	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.07.18 20.03	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.07.18 20.03	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.07.18 20.03	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.07.18 20.03	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.07.18 20.03	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.07.18 20.03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	12.07.18 20.03		
4-Bromofluorobenzene	460-00-4	93	%	70-130	12.07.18 20.03		



Certificate of Analytical Results 607198

Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #3 (4'-5')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-017

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 11.00

Basis: Wet Weight

Seq Number: 3071841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.7	4.96	mg/kg	12.06.18 12.25		1



Certificate of Analytical Results 607198

Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **BH #3 (6'-7')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-018

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 11.00

Basis: Wet Weight

Seq Number: 3071841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.1	4.95	mg/kg	12.06.18 12.31		1



Certificate of Analytical Results 607198

Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **Background (0-1')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-022

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.04.18 16.00

Basis: Wet Weight

Seq Number: 3071672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	12.05.18 09.23	U	1



Certificate of Analytical Results 607198

Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **Background (2'-3')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-023

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.04.18 16.00

Basis: Wet Weight

Seq Number: 3071672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	12.11.18 12.04	U	1



Certificate of Analytical Results 607198

Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **Background (4'-5')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-024

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 11.00

Basis: Wet Weight

Seq Number: 3071841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28.4	4.96	mg/kg	12.06.18 12.37		1



Certificate of Analytical Results 607198

Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **Background (6'-7')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-025

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 11.00

Basis: Wet Weight

Seq Number: 3071841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	111	49.6	mg/kg	12.05.18 16.51		10



Certificate of Analytical Results 607198

Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **Background (9'-10')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-026

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 11.00

Basis: Wet Weight

Seq Number: 3071841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	77.8	4.97	mg/kg	12.11.18 12.10		1



Certificate of Analytical Results 607198

Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **Background (14'-15')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-027

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.11.18 12.00

Basis: Wet Weight

Seq Number: 3072402

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	70.1	4.95	mg/kg	12.11.18 13.49		1



Certificate of Analytical Results 607198



Tetra Tech- Midland, Midland, TX

Cimarex Bonnie 35 Federal #4

Sample Id: **Background (19'-20')**

Matrix: Soil

Date Received: 12.03.18 11.10

Lab Sample Id: 607198-028

Date Collected: 11.30.18 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.05.18 17.05

Basis: Wet Weight

Seq Number: 3071847

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	65.4	4.98	mg/kg	12.11.18 12.16		1



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Tetra Tech- Midland
Cimarex Bonnie 35 Federal #4

Analytical Method: Chloride by EPA 300

Seq Number: 3071672

MB Sample Id: 7667334-1-BLK

Matrix: Solid

LCS Sample Id: 7667334-1-BKS

Prep Method: E300P

Date Prep: 12.04.18

LCSD Sample Id: 7667334-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	262	105	273	109	90-110	4	20	mg/kg	12.05.18 00:26	

Analytical Method: Chloride by EPA 300

Seq Number: 3071841

MB Sample Id: 7667390-1-BLK

Matrix: Solid

LCS Sample Id: 7667390-1-BKS

Prep Method: E300P

Date Prep: 12.05.18

LCSD Sample Id: 7667390-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	255	102	253	101	90-110	1	20	mg/kg	12.05.18 09:53	

Analytical Method: Chloride by EPA 300

Seq Number: 3071847

MB Sample Id: 7667436-1-BLK

Matrix: Solid

LCS Sample Id: 7667436-1-BKS

Prep Method: E300P

Date Prep: 12.05.18

LCSD Sample Id: 7667436-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	271	108	266	106	90-110	2	20	mg/kg	12.06.18 03:43	

Analytical Method: Chloride by EPA 300

Seq Number: 3072402

MB Sample Id: 7667800-1-BLK

Matrix: Solid

LCS Sample Id: 7667800-1-BKS

Prep Method: E300P

Date Prep: 12.11.18

LCSD Sample Id: 7667800-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	255	102	263	105	90-110	3	20	mg/kg	12.11.18 13:18	

Analytical Method: Chloride by EPA 300

Seq Number: 3071672

Parent Sample Id: 607188-027

Matrix: Soil

MS Sample Id: 607188-027 S

Prep Method: E300P

Date Prep: 12.04.18

MSD Sample Id: 607188-027 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.857	250	260	104	260	104	90-110	0	20	mg/kg	12.05.18 00:44	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Tetra Tech- Midland
Cimarex Bonnie 35 Federal #4

Analytical Method: Chloride by EPA 300

Seq Number: 3071672

Parent Sample Id: 607206-005

Matrix: Soil

MS Sample Id: 607206-005 S

Prep Method: E300P

Date Prep: 12.04.18

MSD Sample Id: 607206-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	326	248	571	99	578	102	90-110	1	20	mg/kg	12.05.18 02:11	

Analytical Method: Chloride by EPA 300

Seq Number: 3071841

Parent Sample Id: 607383-001

Matrix: Soil

MS Sample Id: 607383-001 S

Prep Method: E300P

Date Prep: 12.05.18

MSD Sample Id: 607383-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	344	252	584	95	586	96	90-110	0	20	mg/kg	12.05.18 14:54	

Analytical Method: Chloride by EPA 300

Seq Number: 3071841

Parent Sample Id: 607383-002

Matrix: Soil

MS Sample Id: 607383-002 S

Prep Method: E300P

Date Prep: 12.05.18

MSD Sample Id: 607383-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	160	252	414	101	429	107	90-110	4	20	mg/kg	12.05.18 16:21	

Analytical Method: Chloride by EPA 300

Seq Number: 3071847

Parent Sample Id: 607336-026

Matrix: Soil

MS Sample Id: 607336-026 S

Prep Method: E300P

Date Prep: 12.05.18

MSD Sample Id: 607336-026 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	25.4	248	279	102	293	108	90-110	5	20	mg/kg	12.06.18 05:03	

Analytical Method: Chloride by EPA 300

Seq Number: 3071847

Parent Sample Id: 607336-036

Matrix: Soil

MS Sample Id: 607336-036 S

Prep Method: E300P

Date Prep: 12.05.18

MSD Sample Id: 607336-036 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	57.6	250	327	108	335	111	90-110	2	20	mg/kg	12.06.18 04:01	X

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Tetra Tech- Midland
Cimarex Bonnie 35 Federal #4

Analytical Method: Chloride by EPA 300

Seq Number: 3072402

Parent Sample Id: 608091-013

Matrix: Soil

MS Sample Id: 608091-013 S

Prep Method: E300P

Date Prep: 12.11.18

MSD Sample Id: 608091-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	0.995	249	248	99	255	102	90-110	3	20	mg/kg	12.11.18 13:37	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3071595

MB Sample Id: 7667325-1-BLK

Matrix: Solid

LCS Sample Id: 7667325-1-BKS

Prep Method: TX1005P

Date Prep: 12.03.18

LCSD Sample Id: 7667325-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	853	85	879	88	70-135	3	20	mg/kg	12.03.18 15:39	
Diesel Range Organics (DRO)	<8.13	1000	842	84	856	86	70-135	2	20	mg/kg	12.03.18 15:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		114		116		70-135	%	12.03.18 15:39
o-Terphenyl	105		93		95		70-135	%	12.03.18 15:39

Analytical Method: TPH By SW8015 Mod

Seq Number: 3071595

Parent Sample Id: 607275-001

Matrix: Soil

MS Sample Id: 607275-001 S

Prep Method: TX1005P

Date Prep: 12.03.18

MSD Sample Id: 607275-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	8.03	999	849	84	850	84	70-135	0	20	mg/kg	12.03.18 16:38	
Diesel Range Organics (DRO)	14.3	999	856	84	858	85	70-135	0	20	mg/kg	12.03.18 16:38	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		101		70-135	%	12.03.18 16:38
o-Terphenyl	91		89		70-135	%	12.03.18 16:38

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Tetra Tech- Midland
Cimarex Bonnie 35 Federal #4

Analytical Method: BTEX by EPA 8021B

Seq Number: 3072214

MB Sample Id: 7667679-1-BLK

Matrix: Solid

LCS Sample Id: 7667679-1-BKS

Prep Method: SW5030B

Date Prep: 12.07.18

LCSD Sample Id: 7667679-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000386	0.100	0.0971	97	0.0855	86	70-130	13	35	mg/kg	12.08.18 11:11	
Toluene	<0.000457	0.100	0.106	106	0.0783	79	70-130	30	35	mg/kg	12.08.18 11:11	
Ethylbenzene	<0.000567	0.100	0.122	122	0.0794	80	70-130	42	35	mg/kg	12.08.18 11:11	F
m,p-Xylenes	<0.00102	0.201	0.230	114	0.146	73	70-130	45	35	mg/kg	12.08.18 11:11	F
o-Xylene	<0.000346	0.100	0.112	112	0.0726	73	70-130	43	35	mg/kg	12.08.18 11:11	F

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		92		108		70-130	%	12.08.18 11:11
4-Bromofluorobenzene	75		90		81		70-130	%	12.08.18 11:11

Analytical Method: BTEX by EPA 8021B

Seq Number: 3072194

MB Sample Id: 7667688-1-BLK

Matrix: Solid

LCS Sample Id: 7667688-1-BKS

Prep Method: SW5030B

Date Prep: 12.07.18

LCSD Sample Id: 7667688-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0861	86	0.101	101	70-130	16	35	mg/kg	12.07.18 17:32	
Toluene	<0.00200	0.0998	0.0763	76	0.0894	89	70-130	16	35	mg/kg	12.07.18 17:32	
Ethylbenzene	<0.00200	0.0998	0.0883	88	0.111	111	70-130	23	35	mg/kg	12.07.18 17:32	
m,p-Xylenes	<0.00399	0.200	0.177	89	0.232	116	70-130	27	35	mg/kg	12.07.18 17:32	
o-Xylene	<0.00200	0.0998	0.0847	85	0.108	108	70-130	24	35	mg/kg	12.07.18 17:32	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	88		128		119		70-130	%	12.07.18 17:32
4-Bromofluorobenzene	85		103		107		70-130	%	12.07.18 17:32

Analytical Method: BTEX by EPA 8021B

Seq Number: 3072214

Parent Sample Id: 607929-002

Matrix: Soil

MS Sample Id: 607929-002 S

Prep Method: SW5030B

Date Prep: 12.07.18

MSD Sample Id: 607929-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0996	0.0883	89	0.0978	98	70-130	10	35	mg/kg	12.10.18 12:01	
Toluene	<0.000454	0.0996	0.0809	81	0.0907	91	70-130	11	35	mg/kg	12.10.18 12:01	
Ethylbenzene	<0.000563	0.0996	0.0863	87	0.0965	97	70-130	11	35	mg/kg	12.10.18 12:01	
m,p-Xylenes	<0.00101	0.199	0.158	79	0.178	89	70-130	12	35	mg/kg	12.10.18 12:01	
o-Xylene	<0.000343	0.0996	0.0763	77	0.0861	86	70-130	12	35	mg/kg	12.10.18 12:01	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		101		70-130	%	12.10.18 12:01
4-Bromofluorobenzene	73		74		70-130	%	12.10.18 12:01

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200 * |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Tetra Tech- Midland
Cimarex Bonnie 35 Federal #4

Analytical Method: BTEX by EPA 8021B

Seq Number: 3072194

Parent Sample Id: 607375-009

Matrix: Soil

MS Sample Id: 607375-009 S

Prep Method: SW5030B

Date Prep: 12.07.18

MSD Sample Id: 607375-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0894	90	0.0963	95	70-130	7	35	mg/kg	12.07.18 18:15	
Toluene	<0.00198	0.0992	0.0773	78	0.0819	81	70-130	6	35	mg/kg	12.07.18 18:15	
Ethylbenzene	<0.00198	0.0992	0.0820	83	0.0829	82	70-130	1	35	mg/kg	12.07.18 18:15	
m,p-Xylenes	<0.00397	0.198	0.159	80	0.157	78	70-130	1	35	mg/kg	12.07.18 18:15	
o-Xylene	<0.00198	0.0992	0.0778	78	0.0772	76	70-130	1	35	mg/kg	12.07.18 18:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		122		70-130	%	12.07.18 18:15
4-Bromofluorobenzene	101		100		70-130	%	12.07.18 18:15

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Cimarex		Site Manager: Clair Gonzales					
Project Name: Bonnie 35 Federal #4							
Project Location: (county, state) Eddy County, New Mexico		Project #: 212C-MD-00990.03					
Invoice to: Cimarex- Christine Alderman		Receiving Laboratory: Xenco Midland Tx					
Sampler Signature: Mike Carmona		Comments: Run deeper samples if TPH exceeds 100 mg/kg. Run deeper samples if benzene exceeds 10 mg/kg or Total BTEX exceeds 50 mg/kg. If Chloride exceeds 600 mg/kg run deeper samples					
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
		YEAR: 2018	DATE				
	BH #1 (0-1')		11/30/2018		X		1 N
	BH #1 (2-3')		11/30/2018		X		1 N
	BH #1 (4-5')		11/30/2018		X		1 N
	BH #1 (6-7')		11/30/2018		X		1 N
	BH #1 (9-10')		11/30/2018		X		1 N
	BH #1 (14-15')		11/30/2018		X		1 N
	BH # (19-20')		11/30/2018		X		1 N
	BH #2 (0-1')		11/30/2018		X		1 N
	BH #2 (2-3')		11/30/2018		X		1 N
Relinquished by: Mike Carmona		Date: 12/31/18	Time: 11:10	Received by: [Signature]	Date: 12/31/19	Time: 11:10	
Relinquished by:		Date:	Time:	Received by:	Date:	Time:	
Relinquished by:		Date:	Time:	Received by:	Date:	Time:	

ORIGINAL COPY

LAB USE ONLY Sample Temperature	REMARKS:	
	☒ STANDARD	
	☐ RUSH: Same Day 24 hr 48 hr 72 hr	
	☐ Rush Charges Authorized	
	☐ Special Report Limits or TRRP Report	
	BTEX 8021B BTEX 8260B	
	TPH TX1005 (Ext to C35)	
	TPH 8015M (GRO - DRO - ORO - MRO)	
	PAH 8270C	
	Total Metals Ag As Ba Cd Cr Pb Se Hg	
	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
	TCLP Volatiles	
	TCLP Semi Volatiles	
	RCI	
	GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625		
PCB's 8082 / 608		
NORM		
PLM (Asbestos)		
Chloride		
Chloride Sulfate TDS		
General Water Chemistry (see attached list)		
Anion/Cation Balance		

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

1007192

Page 2 of 2

3

Project Name:		Cimarrex		Site Manager:		Clair Gonzales															
Project Location:		(county, state) Bonnie 35 Federal #4 Eddy County, New Mexico		Project #:		212C-MD-00990.03															
Invoice to:		Cimarrex- Christine Alderman		Sampler Signature:		Mike Carmona															
Receiving Laboratory:		Xenco Midland Tx		Comments:		Run deeper samples if TPH exceeds 100 mg/kg. Run deeper samples if benzene exceeds 10 mg/kg or Total BTEX exceeds 50 mg/kg. If Chloride exceeds 600 mg/kg run deeper samples															
LAB # (LAB USE ONLY)		SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS		FILTERED (Y/N)									
				YEAR: 2018																	
				DATE		TIME		WATER		SOIL		HCL		HNO ₃		ICE		None			
BH #2 (4-5)				11/30/2018				X				X								1 N	
BH #2 (6-7)				11/30/2018				X				X								1 N	
BH #2 (9-10)				11/30/2018				X				X								1 N	
BH #2 (14-15)				11/30/2018				X				X								1 N	
BH #2 (19-20)				11/30/2018				X				X								1 N	
BH #3 (0-1)				11/30/2018				X				X								1 N	
BH #3 (2-3)				11/30/2018				X				X								1 N	
BH #3 (4-5)				11/30/2018				X				X								1 N	
BH #3 (6-7)				11/30/2018				X				X								1 N	
Relinquished by:		Mike Carmona		Date: 12-3-18		Time: 1100		Received by:		HOLD		Date: 12/13/18		Time: 1100							
Relinquished by:				Date:		Time:		Received by:				Date:		Time:							
Relinquished by:				Date:		Time:		Received by:				Date:		Time:							

ANALYSIS REQUEST (Circle or Specify Method No.)	
BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
Hold	

LAB USE ONLY	REMARKS:
☒ STANDARD	
☐ RUSH: Same Day 24 hr 48 hr 72 hr	
☐ Rush Charges Authorized	
☐ Special Report Limits or TRRP Report	

Sample Temperature

C. 36.2

Imaging: 2/4/2025 11:06:01 AM

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste 401
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Cimarex		Site Manager: Clair Gonzales					
Project Name: Bonnie 35 Federal #4							
Project Location: (county, state) Eddy County, New Mexico		Project #: 212C-MD-00990.03					
Invoice to: Cimarex-Christine Alderman							
Receiving Laboratory: Xenco Midland TX		Sampler Signature: Mike Carmona					
Comments: Run deeper samples if TPH exceeds 100 mg/kg. Run deeper samples if benzene exceeds 10 mg/kg or Total BTEX exceeds 50 mg/kg. If Chloride exceeds 600 mg/kg run deeper samples							
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
		DATE	TIME				
	BH #3 (9'-10')	11/30/2018		X	X	1	N
	BH #3 (14'-15')	11/30/2018		X	X	1	N
	BH #3 (19-20')	11/30/2018		X	X	1	N
	Background (0-1')	11/30/2018		X	X	1	N
	Background (2-3')	11/30/2018		X	X	1	N
	Background (4-5')	11/30/2018		X	X	1	N
	Background (6-7')	11/30/2018		X	X	1	N
	Background (9'-10')	11/30/2018		X	X	1	N
	Background (14-15')	11/30/2018		X	X	1	N
	Background (19-20')	11/30/2018		X	X	1	N
Relinquished by: Mike Carmona		Date: 12-3-18	Time: 1110	Received by: [Signature]		Date: 12/3/18	Time: 1110
Relinquished by:		Date:	Time:	Received by:		Date:	Time:

ORIGINAL COPY

LAB USE ONLY	REMARKS:	ANALYSIS REQUEST (Circle or Specify Method No.)											
		BTEX 8021B BTEX 8260B TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance											
Sample Temperature	☒ STANDARD ☐ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report												
(Circle) HAND DELIVERED FEDEX UPS Tracking #:													



Client: Tetra Tech- Midland

Date/ Time Received: 12/03/2018 11:10:00 AM

Work Order #: 607198

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 12/03/2018

Checklist reviewed by:

Kelsey Brooks

Date: 12/04/2018

Sante Fe Main Office
Phone: (505) 476-3441

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Phone: (505) 629-6116

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

QUESTIONS

Action 422218

QUESTIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 422218
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1812231599
Incident Name	NAB1812231599 BONNIE 35 FEDERAL COM #004H @ 30-015-43619
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-43619] BONNIE 35 FEDERAL COM #004H

Location of Release Source

Please answer all the questions in this group.

Site Name	BONNIE 35 FEDERAL COM #004H
Date Release Discovered	04/17/2018
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure Valve Crude Oil Released: 4 BBL Recovered: 0 BBL Lost: 4 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 5 BBL Recovered: 0 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 422218

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 422218
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 01/20/2025
--	--

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Santa Fe, NM 87505

QUESTIONS, Page 3

Action 422218

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 422218
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	3470
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1450
GRO+DRO (EPA SW-846 Method 8015M)	1450
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	12/16/2024
On what date will (or did) the final sampling or liner inspection occur	01/06/2025
On what date will (or was) the remediation complete(d)	01/06/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	7356
What is the estimated volume (in cubic yards) that will be remediated	440
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

QUESTIONS, Page 4

Action 422218

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 422218
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 01/20/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 5

Action 422218

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 422218
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 422218

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 422218
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	416321
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/06/2025
What was the (estimated) number of samples that were to be gathered	7
What was the sampling surface area in square feet	2000

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	7356
What was the total volume (cubic yards) remediated	440
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Historical spill was excavated and sampled before being backfilled with clean material. All confirmation samples were below NMAC 19.25.29.12/13. The same goes for the composite sample of the backfill material used from a local landowner.
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 01/20/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 7

Action 422218

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 422218
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

Sante Fe Main Office
Phone: (505) 476-3441

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CONDITIONS

Action 422218

CONDITIONS

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	Action Number: 422218
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAB1812231599 BONNIE 35 FEDERAL COM #004H, thank you. This Remediation Closure Report is approved.	2/4/2025