CARMONA RESOURCES

SITE INFORMATION

Closure Report
White City Penn A 28 Gas Com Unit 3 #004 (04.12.2019)
Incident ID: NAB1912653924
Eddy County, New Mexico
Unit K Sec 28 T24S R26E
32.186097°, -104.302101°

Point of Release:
A hole developed at the bottom base of the tank due to corrosion.
Release Date: 04.12.2019
Volume Released: 38 Barrels of Condensate
Volume Recovered: 0 Barrels of Condensate

CARMONA RESOURCES

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

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

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

CARMONA RESOURCES

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

CARMONA RESOURCES

March 25, 2024

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

Re: Closure Report
White City Penn A 28 Gas Com Unit 3 #004 (04.12.2019)
Incident ID: NAB1912653924
Cimarex Energy Co. of Colorado
Site Location: Unit K, S28, T24S, R26E
(Lat 32.186097º, Long -104.302101°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Cimarex Energy Co. of Colorado (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for the White City Penn A 28 Gas Com Unit 3 #004. The site is located at 32.186097º, -104.302101º within Unit K, S28, T24S, 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 12, 2019, caused by corrosion at the bottom of the tank. It resulted in approximately thirty-eight (38) barrels of condensate, and zero (0) barrels of condensate were recovered. The impacted area was located on the pad within the containment area. Since this release, the entire tank battery containment has been deconstructed and reconstructed to the east, giving access to remediate the spill area. 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 1.09 miles Northwest of the site in S29, T24S, R26E and was drilled in 1964. The well has a reported depth to groundwater of 19' 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.

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4.0 Site Assessment Activities

Initial Soil Assessment

On May 11, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, three (3) test trenches (T-1 through T-3) and four (4) horizontal sample points (H-1 through H-4) were advanced to depths ranging from the surface to 12.0' 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. Refer to Table 1.

Horizontal Delineation

The areas of H-1 through H-4 were below regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

Vertical Delineation

The area of T-1 showed elevated chloride concentrations of 2,110 mg/kg at a depth of 1' bgs. The area of T-2 was not vertically delineated due to a dense rock layer during the initial soil assessment but was delineated during remediation. The area of T-3 showed elevated chloride concentrations with a range of 678 mg/kg to 7,020 mg/kg from surface to 5' bgs. Refer to Table 1 & Table 2.

5.0 Remediation Activities

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via web portal on March 12, 2024, March 17, 2024, and March 20, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of T-1 was excavated to a depth of 1.5' bgs. The area of T-2 was excavated to a depth ranging from 12.5'-13.25' bgs. The area of T-3 was excavated to a depth ranging from 5.5'-6.0' bgs. A total of twelve (12) confirmation floor samples (CS-1 through CS-12) and fifteen (15) sidewall samples (SW-1 through SW-15) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA Method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

The areas of CS-2, CS-7, CS-9, SW-4, SW-8, SW-9, and SW-10 exceeded reclamation and regulatory requirements for chloride. Those areas were immediately excavated, removed, and retested.

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. Approximately 800 cubic yards of material were excavated and transported offsite for proper disposal.

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6.0 Conclusions

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

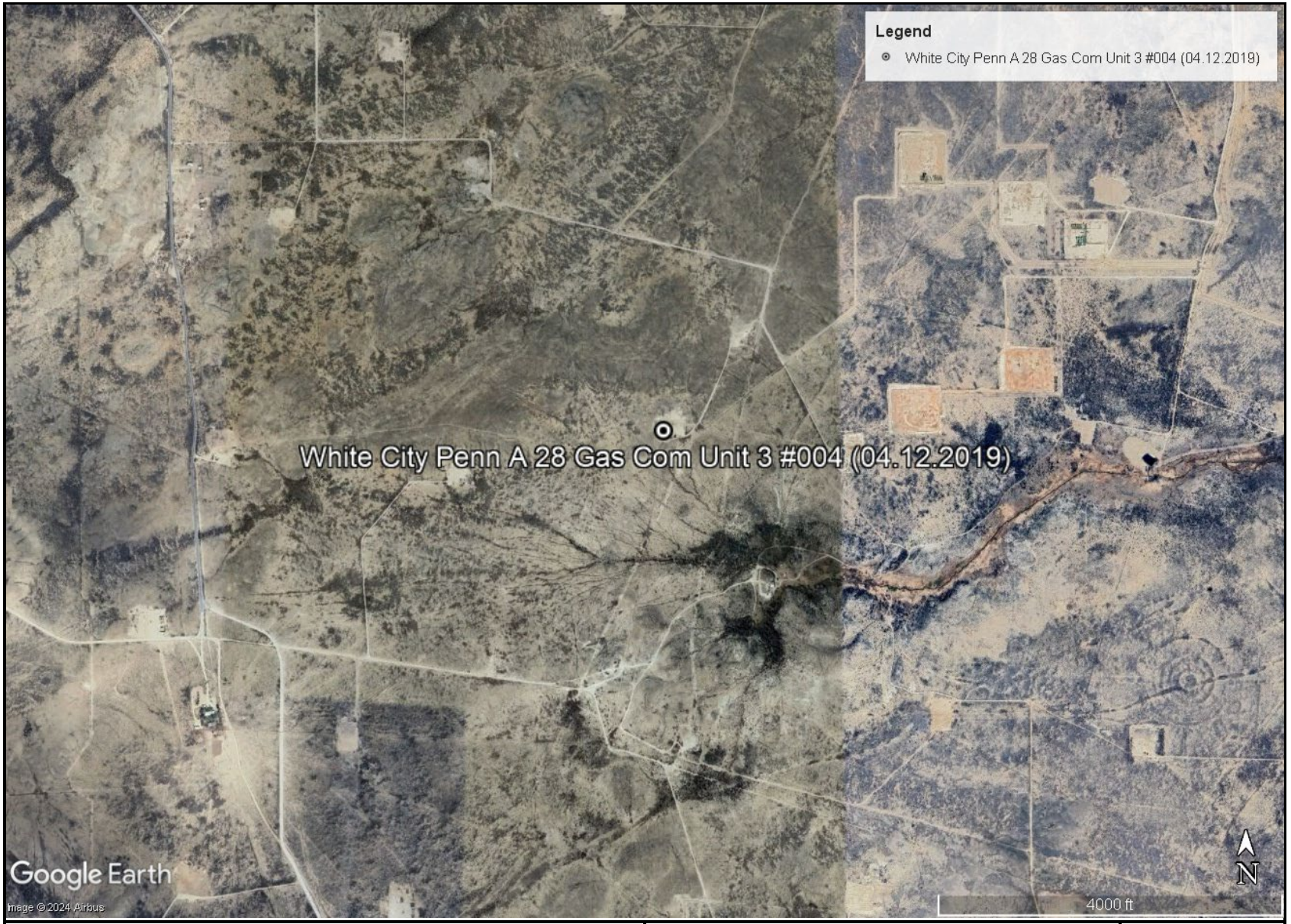
Ashton Thielke
Sr. Project Manager

Clinton Merritt
Sr. Project Manager

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

FIGURES

CARMONA RESOURCES



OVERVIEW MAP CIMAREX ENERGY CO. OF COLORADO WHITE CITY PENN A 28 GAS COM UNIT 3 #004 (04.12.2019) EDDY COUNTY, NEW MEXICO 32.186097°, -104.302101°	CARMONA RESOURCES	FIGURE 1

TOPOGRAPHIC MAP CIMAREX ENERGY CO. OF COLORADO WHITE CITY PENN A 28 GAS COM UNIT 3 #004 (04.12.2019) EDDY COUNTY, NEW MEXICO 32.186097°, -104.302101°	CARMONA RESOURCES	FIGURE 2

SAMPLE LOCATION MAP CIMAREX ENERGY CO. OF COLORADO WHITE CITY PENN A 28 GAS COM UNIT 3 #004 (04.12.2019) EDDY COUNTY, NEW MEXICO 32.186097°, -104.302101°	CARMONA RESOURCES	FIGURE 3

EXCAVATION DEPTH MAP CIMAREX ENERGY CO. OF COLORADO WHITE CITY PENN A 28 GAS COM UNIT 3 #004 (04.12.2019) EDDY COUNTY, NEW MEXICO 32.186097°, -104.302101°	CARMONA RESOURCES	FIGURE 4A

EXCAVATION DEPTH MAP CIMAREX ENERGY CO. OF COLORADO WHITE CITY PENN A 28 GAS COM UNIT 3 #004 (04.12.2019) EDDY COUNTY, NEW MEXICO 32.186097°, -104.302101°	CARMONA RESOURCES	FIGURE 4B

APPENDIX A

CARMONA RESOURCES

Table 1
Cimarex
White City Penn A 28 Gas Com Unit 3 #004 (04.12.2019)
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						
T-1	5/11/2023	0-1.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**2,110**
	"	1.0'-1.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	405
	"	1.5'-2.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	109
T-2	5/11/2023	0-1.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**10,600**
	"	1.0'-1.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**1,200**
	"	1.5'-2.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**2,700**
	"	2.0'-3.0'	<49.9	**1,430**	**216**	**1,650**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**2,780**
	"	3.0'-4.0'	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**3,330**
	"	4.0'-5.0'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**4,450**
	"	5.0'-6.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**4,320**
	"	6.0'-7.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**5,860**
	"	7.0'-8.0'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**5,620**
	"	8.0'-9.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**4,140**
	"	9.0-'10.0'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**1,920**
	"	10.0'-11.0'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**1,560**
	"	11.0'-12.0'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**1,170**
T-3	5/11/2023	0-1.0	<49.9	**126**	<49.9	**126**	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	**7,020**
	"	1.0'-1.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**2,240**
	"	1.5'-2.0'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**1,820**
	"	2.0'-3.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**678**
	"	3.0'-4.0'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**1,060**
	"	4.0'-5.0'	<49.9	**115**	<49.9	**115**	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**5,470**
	"	5.0'-6.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	490
	"	6.0'-7.0'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	95.7
H-1	5/11/2023	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	177
H-2	5/11/2023	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	97.5
H-3	5/11/2023	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	61.8
H-4	5/11/2023	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	163
Regulatory Criteria [A]						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed
[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(H) Horizontal Sample
(T) Trench Sample
Removed

Table 2
Cimarex
White City Penn A 28 Gas Com Unit 3 #004 (04.12.2019)
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						
CS-1	3/14/2024	5.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	208
CS-2	3/14/2024	5.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	**992**
	3/19/2024	6.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	48.0
CS-3	3/14/2024	5.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	272
CS-4	3/14/2024	5.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	496
CS-5	3/14/2024	12.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	352
CS-6	3/14/2024	12.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	592
CS-7	3/14/2024	12.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	**880**
	3/19/2024	13.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	**832**
	3/22/2024	13.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	1.300	80
CS-8	3/14/2024	12.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	448
CS-9	3/14/2024	12.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	**800**
	3/19/2024	13.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	592
CS-10	3/14/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	96.0
CS-11	3/14/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	144
CS-12	3/14/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	112
SW-1	3/14/2024	5.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	176
SW-2	3/14/2024	5.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	320
SW-3	3/14/2024	5.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	64.0
SW-4	3/14/2024	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	**608**
	3/19/2024	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	**720**
	3/22/2024	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	208
SW-5	3/14/2024	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	512
SW-6	3/14/2024	12.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	352
SW-7	3/14/2024	12.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	320
SW-8	3/14/2024	12.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	**800**
	3/19/2024	12.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	480
SW-9	3/14/2024	12.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	**912**
	3/19/2024	12.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	496
SW-10	3/14/2024	12.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	**944**
	3/19/2024	12.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	592
SW-11	3/14/2024	12.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	544
SW-12	3/14/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	240
SW-13	3/14/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	336
SW-14	3/14/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	304
SW-15	3/14/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	0.300	32.0
Regulatory Criteria [A]						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed
[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(CS) Confirmation Floor Sample
(SW) Sidewall Sample
Removed

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

Photograph No. 1

Facility: White City Penn A 28 Gas Com Unit 3 #004

County: Eddy County, New Mexico

Description:
View Southwest, area of CS-1 through CS-9.

Photograph No. 2

Facility: White City Penn A 28 Gas Com Unit 3 #004

County: Eddy County, New Mexico

Description:
View Southwest, area of CS-1 through CS-9.

Photograph No. 3

Facility: White City Penn A 28 Gas Com Unit 3 #004

County: Eddy County, New Mexico

Description:
View Southwest, area of excavation.

PHOTOGRAPHIC LOG

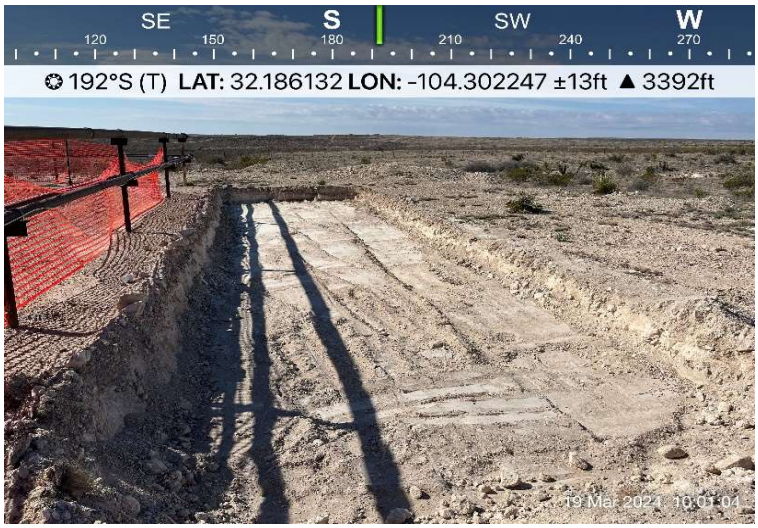
Cimarex Energy Co. of Colorado

Photograph No. 4

Facility: White City Penn A 28 Gas Com Unit 3 #004

County: Eddy County, New Mexico

Description:
View South, area of CS-10 through CS-12.



Photograph No. 5

Facility: White City Penn A 28 Gas Com Unit 3 #004

County: Eddy County, New Mexico

Description:
View Northeast, area of CS-10 through CS-12.

APPENDIX C

CARMONA RESOURCES

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	NAB1912653924
District RP	2RP-5387
Facility ID	
Application ID	pAB1912653489

Release Notification

Responsible Party

Responsible Party Cimarex Energy Co. of Colorado	OGRID 162683
Contact Name Gloria Garza	Contact Telephone 432.234.3204
Contact email ggarza@cimarex.com	Incident # *(assigned by OCD)* NAB1912653924
Contact mailing address 600 N Marienfeld, Midland TX 79701 Suite 600	

Location of Release Source

Latitude 32.186097 Longitude -104.302100
(NAD 83 in decimal degrees to 5 decimal places)

Site Name White City Penn 28 Unit 3 #4	Site Type Tank Battery
Date Release Discovered 4/12/2019	API# *(if applicable)* 30-015-33862

Unit Letter	Section	Township	Range	County
K	28	24S	26E	Eddy

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☒ Condensate	Volume Released (bbls) 38 bbls	Volume Recovered (bbls) 0 bbls
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
A hole developed at the bottom base of the tank due to corrosion.

State of New Mexico
Oil Conservation Division

Incident ID	NAB1912653924
District RP	2RP-5387
Facility ID	
Application ID	pAB1912653489

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The volume of fluids recovered were > 25 bbls.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Yes
Gloria Garza
Jim Griswold, Mike Bratcher, Robert Hamlet and Victoria Venegas. Email 4/12/2019

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Gloria Garza Title: ESH Specialist

Signature: Gloria Garza Date: 4/15/19

email: ggarza@cimarex.com Telephone: 432.234.3204

OCD Only

Received by: Amalia Bustamante Date: 5/6/2019

State of New Mexico
Oil Conservation Division

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

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	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 322661

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 322661
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1912653924**
Incident Name	**NAB1912653924 WHITE CITY PENN A 28 GAS COM UNIT 3 #004 @ 30-015-33862**
Incident Type	**Release Other**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-015-33862] White City Penn A 28 Gas Com Unit 3 #004**

Location of Release Source	
Site Name	**WHITE CITY PENN A 28 GAS COM UNIT 3 #004**
Date Release Discovered	**04/12/2019**
Surface Owner	**State**

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	11
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/14/2024
Time sampling will commence	02:30 PM
Please provide any information necessary for observers to contact samplers	Miranda Milwee - 432-813-9652
Please provide any information necessary for navigation to sampling site	32.186097,-104.302101

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

CONDITIONS

Action 322661

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 322661
	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.	3/12/2024

District I
1625 N. French Dr., Hobbs, NM 88240
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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 323908

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 323908
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1912653924**
Incident Name	**NAB1912653924 WHITE CITY PENN A 28 GAS COM UNIT 3 #004 @ 30-015-33862**
Incident Type	**Release Other**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-015-33862] White City Penn A 28 Gas Com Unit 3 #004**

Location of Release Source	
Site Name	**WHITE CITY PENN A 28 GAS COM UNIT 3 #004**
Date Release Discovered	**04/12/2019**
Surface Owner	**State**

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	03/18/2024
Time sampling will commence	02:30 PM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Miranda Milwee - 432-813-9652 Collection of samples after further excavation due to a few confirmation samples that exceeded standards.
Please provide any information necessary for navigation to sampling site	32.186097,-104.302101

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

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 323908
	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.	3/17/2024

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

QUESTIONS

Action 325209

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 325209
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1912653924**
Incident Name	**NAB1912653924 WHITE CITY PENN A 28 GAS COM UNIT 3 #004 @ 30-015-33862**
Incident Type	**Release Other**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-015-33862] White City Penn A 28 Gas Com Unit 3 #004**

Location of Release Source	
Site Name	**WHITE CITY PENN A 28 GAS COM UNIT 3 #004**
Date Release Discovered	**04/12/2019**
Surface Owner	**State**

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	2
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/22/2024
Time sampling will commence	01:30 PM
Please provide any information necessary for observers to contact samplers	Gilbert Priego - 432-813-8988 Recollection of samples (2), after further excavation due to a few confirmation samples that exceeded standards.
Please provide any information necessary for navigation to sampling site	32.186097,-104.302101

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CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 325209
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

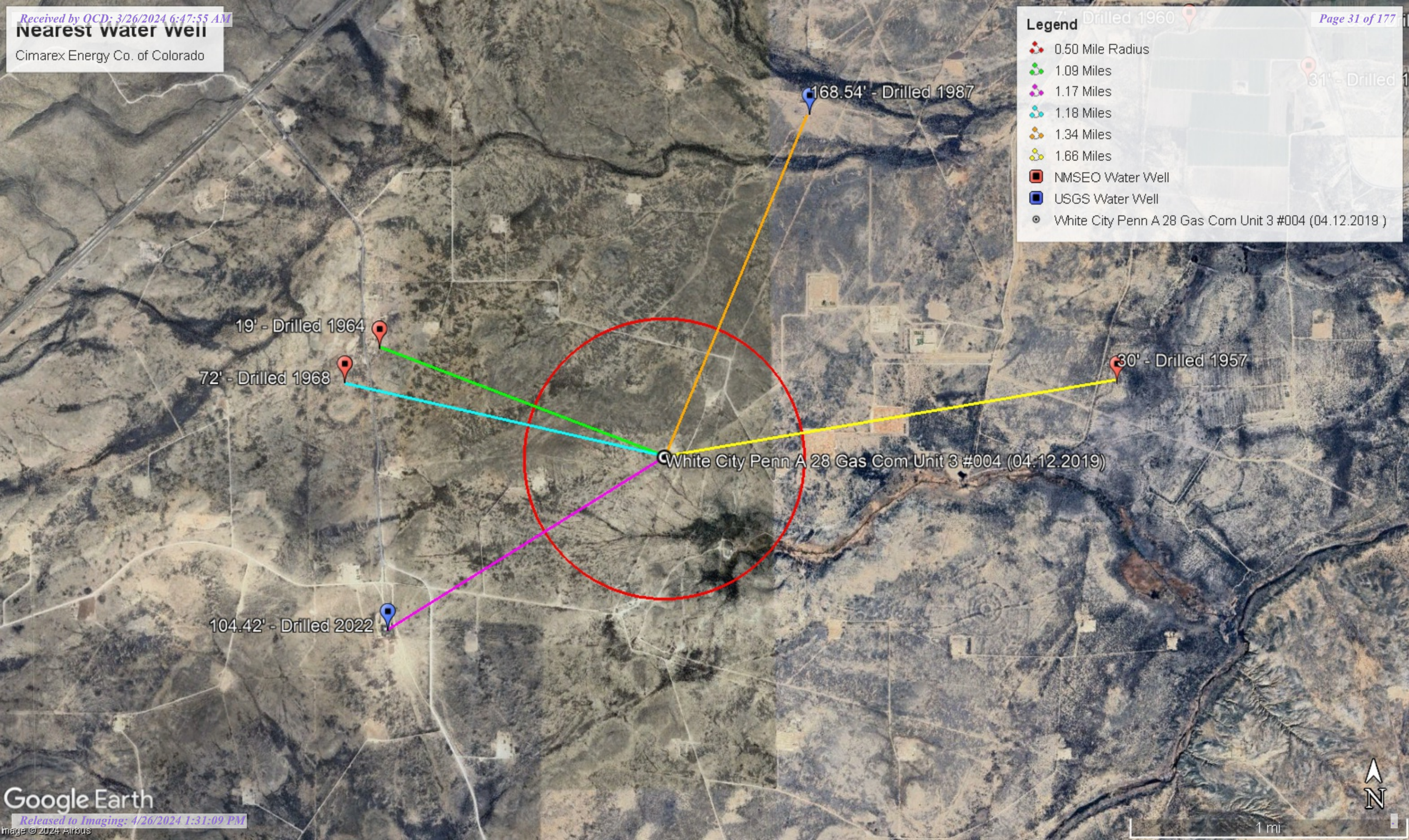
Created By	Condition	Condition Date
lluig	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/20/2024

APPENDIX D

CARMONA RESOURCES

Nearest Water Well

Cimarex Energy Co. of Colorado



High Karst

Cimarex Energy Co. of Colorado

Legend

- High
- White City Penn A 28 Gas Com Unit 3 #004 (04.12.2019)

White City Penn A 28 Gas Com Unit 3 #004 (04.12.2019)

Google Earth

N

1 mi

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

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

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 01202	C	ED			1	29	24S	26E	564138	3561903*	1764	75	19	56
C 01386	C	ED		3	1	29	24S	26E	563937	3561702*	1898	84	72	12
C 02700	C	ED	1	1	3	29	24S	26E	563844	3561400*	1947	180		
C 01454	C	ED		1	3	20	24S	26E	563917	3562912*	2484	87	70	17
C 04270 POD2	CUB	ED	1	4	1	20	26S	26E	564309	3563438	2618	59		
C 00792	C	ED		4	2	27	24S	26E	568397	3561747*	2651	70	30	40
C 03200 POD1	C	ED	2	3	4	34	24S	26E	568206	3559349	3092	80	52	28
C 04586 POD1	C	ED	4	1	1	35	24S	26E	568993	3560476	3304	150		
C 01089	C	ED	3	4	1	03	25S	26E	567505	3558398*	3352	96	45	51
C 00928	C	ED		1	1	23	24S	26E	568806	3563757*	3906	91	7	84

Average Depth to Water: **42 feet**

Minimum Depth: **7 feet**

Maximum Depth: **72 feet**

Record Count: 10

UTMNAD83 Radius Search (in meters):

Easting (X): 565787.51 **Northing (Y):** 3561276.88 **Radius:** 4000

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	C 01202			1	29	24S	26E	564138	3561903*

Driller License: 30 **Driller Company:** BARRON, EMMETT

Driller Name: BARRON, EMMETT

Drill Start Date: 06/24/1964 **Drill Finish Date:** 06/27/1964 **Plug Date:**

Log File Date: 09/08/1964 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 7.00 **Depth Well:** 75 feet **Depth Water:** 19 feet

Water Bearing Stratifications:	Top	Bottom	Description
	68	70	Other/Unknown

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	C 00792		4	2	27	24S	26E	568397	3561747*

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

Driller License:	62	**Driller Company:**	BEATTY, J.R.		
Driller Name:	WILLARD BEATY				
Drill Start Date:	07/24/1957	**Drill Finish Date:**	07/24/1957	**Plug Date:**	07/26/1961
Log File Date:	08/12/1957	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	8.00	**Depth Well:**	70 feet	**Depth Water:**	30 feet

Water Bearing Stratifications:	Top	Bottom	Description
	60	65	Sandstone/Gravel/Conglomerate

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	C 01386	3	1		29	24S	26E	563937	3561702*

Driller License: 30 **Driller Company:** BARRON, EMMETT

Driller Name: BARRON, EMMETT

Drill Start Date:	07/25/1968	**Drill Finish Date:**	07/30/1968	**Plug Date:**	
Log File Date:	09/03/1968	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	84 feet	**Depth Water:**	72 feet

Water Bearing Stratifications:	Top	Bottom	Description
	82	84	Other/Unknown

***UTM location was derived from PLSS - see Help**

Click to hideNews Bulletins

- Attention current WaterAlert users: NextGen WaterAlert is replacing Legacy WaterAlert. You must take action before 9/30/2022 to retain your alerts. Read more.
- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321039104185201

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321039104185201 24S.26E.32.141121

Eddy County, New Mexico
Latitude 32°10'37.9", Longitude 104°19'08.6" NAD83
Land-surface elevation 3,430.20 feet above NGVD29
The depth of the well is 200 feet below land surface.
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 measu
1948-12-01		D	62610		3320.80	NGVD29	1	Z		
1948-12-01		D	62611		3322.48	NAVD88	1	Z		
1948-12-01		D	72019	109.40			1	Z		
1978-01-05		D	62610		3318.16	NGVD29	1	Z		
1978-01-05		D	62611		3319.84	NAVD88	1	Z		
1978-01-05		D	72019	112.04			1	Z		
1983-01-10		D	62610		3316.87	NGVD29	1	Z		
1983-01-10		D	62611		3318.55	NAVD88	1	Z		
1983-01-10		D	72019	113.33			1	Z		
1987-10-21		D	62610		3322.52	NGVD29	1	Z		
1987-10-21		D	62611		3324.20	NAVD88	1	Z		
1987-10-21		D	72019	107.68			1	Z		
1993-02-05		D	62610		3321.97	NGVD29	1	S		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1993-02-05		D	62611		3323.65	NAVD88	1	S		
1993-02-05		D	72019	108.23			1	S		
1998-01-09		D	62610		3320.32	NGVD29	1	S		
1998-01-09		D	62611		3322.00	NAVD88	1	S		
1998-01-09		D	72019	109.88			1	S		
2003-02-05		D	62610		3318.81	NGVD29	1	S		
2003-02-05		D	62611		3320.49	NAVD88	1	S		
2003-02-05		D	72019	111.39			1	S		
2013-01-08	22:20 UTC	m	62610		3316.97	NGVD29	1	S		
2013-01-08	22:20 UTC	m	62611		3318.65	NAVD88	1	S		
2013-01-08	22:20 UTC	m	72019	113.23			1	S		
2022-01-12	00:42 UTC	m	62610		3325.78	NGVD29	1	S		
2022-01-12	00:42 UTC	m	62611		3327.46	NAVD88	1	S		
2022-01-12	00:42 UTC	m	72019	104.42			1	S		

Explanation

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

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

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: 2022-08-18 17:12:25 EDT
0.27 0.23 nadww02

Click to hideNews Bulletins

- Attention current WaterAlert users: NextGen WaterAlert is replacing Legacy WaterAlert. You must take action before 9/30/2022 to retain your alerts. Read more.
- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321214104173601

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321214104173601 24S.26E.21.23424

Eddy County, New Mexico
Latitude 32°12'14", Longitude 104°17'36" NAD27
Land-surface elevation 3,342.0 feet above NGVD29
The depth of the well is 175.0 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1987-10-21		D	62610		3173.46	NGVD29	P	S		
1987-10-21		D	62611		3175.14	NAVD88	P	S		
1987-10-21		D	72019	168.54			P	S		

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

Section	Code	Description
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

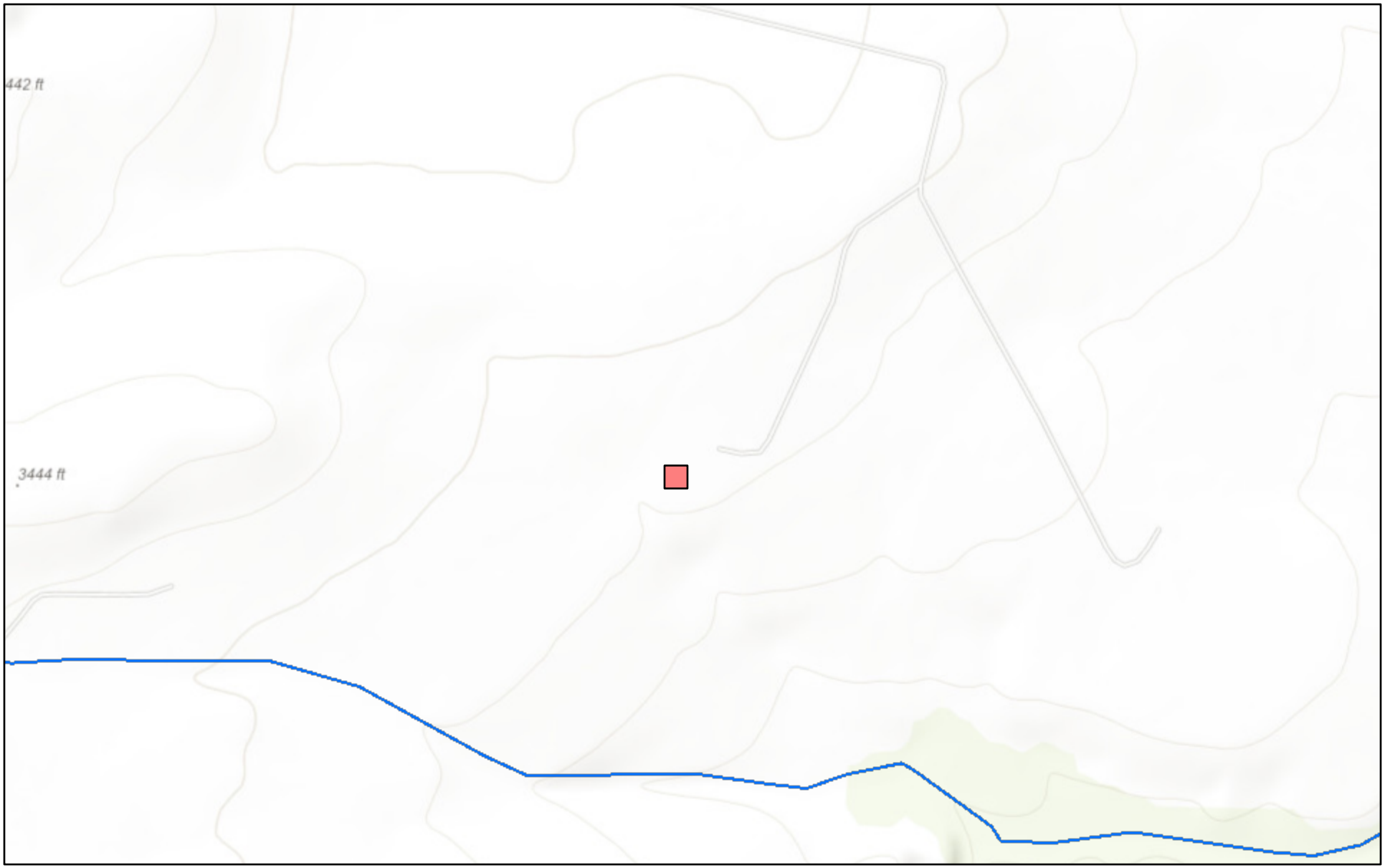
Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2022-08-18 17:09:34 EDT
0.29 0.24 nadww01

New Mexico NFHL Data



August 18, 2022

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

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

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APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 5/18/2023 10:33:47 AM

JOB DESCRIPTION

White City Penn 28 Gas Com (04.15.2019)
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-28379-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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
5/18/2023 10:33:47 AM

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

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28379-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28379-1
SDG: Eddy County, New Mexico

Job ID: 880-28379-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-28379-1

Receipt
The samples were received on 5/12/2023 2:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.0°C

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-53453 recovered above the upper control limit for Toluene and m-Xylene & p-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-53453 recovered above the upper control limit for m-Xylene & p-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: H-1 (0-0.5') (880-28379-1), H-2 (0-0.5') (880-28379-2), H-3 (0-0.5') (880-28379-3), H-4 (0-0.5') (880-28379-4), (890-4651-A-1-I), (890-4651-A-1-G MS) and (890-4651-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-53495 and analytical batch 880-53453 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch laboratory control sample duplicate and matrix spike duplicate (LCSD/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-53495 and analytical batch 880-53453 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCSD) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-53469 and analytical batch 880-53450 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-53469/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4659-A-9-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-1 (0-0.5') (880-28379-1), H-2 (0-0.5') (880-28379-2), H-3 (0-0.5') (880-28379-3) and H-4 (0-0.5') (880-28379-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28379-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28379-1
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/16/23 15:10	05/17/23 04:52	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		05/16/23 15:10	05/17/23 04:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/23 15:10	05/17/23 04:52	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401		mg/Kg		05/16/23 15:10	05/17/23 04:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/23 15:10	05/17/23 04:52	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		05/16/23 15:10	05/17/23 04:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*177*	*S1+*	*70 - 130*	*05/16/23 15:10*	*05/17/23 04:52*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*05/16/23 15:10*	*05/17/23 04:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/17/23 15:53	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			05/17/23 12:07	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	<49.9	U	49.9		mg/Kg		05/16/23 11:47	05/16/23 23:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/23 11:47	05/16/23 23:42	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 11:47	05/16/23 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*05/16/23 11:47*	*05/16/23 23:42*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*05/16/23 11:47*	*05/16/23 23:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**177**		5.05		mg/Kg			05/17/23 12:06	1

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

Lab Sample ID: 880-28379-2
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/16/23 15:10	05/17/23 05:18	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		05/16/23 15:10	05/17/23 05:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/16/23 15:10	05/17/23 05:18	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		05/16/23 15:10	05/17/23 05:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/16/23 15:10	05/17/23 05:18	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		05/16/23 15:10	05/17/23 05:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*182*	*S1+*	*70 - 130*	*05/16/23 15:10*	*05/17/23 05:18*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*05/16/23 15:10*	*05/17/23 05:18*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28379-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28379-2
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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			05/17/23 15:53	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			05/17/23 12:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/23 11:47	05/17/23 00:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/23 11:47	05/17/23 00:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/23 11:47	05/17/23 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*05/16/23 11:47*	*05/17/23 00:03*	*1*
o-Terphenyl	*137*	*S1+*	*70 - 130*	*05/16/23 11:47*	*05/17/23 00:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**97.5**		4.97		mg/Kg			05/17/23 12:22	1

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

Lab Sample ID: 880-28379-3
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/16/23 15:10	05/17/23 07:02	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		05/16/23 15:10	05/17/23 07:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/16/23 15:10	05/17/23 07:02	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		05/16/23 15:10	05/17/23 07:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/16/23 15:10	05/17/23 07:02	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		05/16/23 15:10	05/17/23 07:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*153*	*S1+*	*70 - 130*	*05/16/23 15:10*	*05/17/23 07:02*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*05/16/23 15:10*	*05/17/23 07:02*	*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			05/17/23 15:53	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			05/17/23 12:07	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	<49.9	U	49.9		mg/Kg		05/16/23 11:47	05/17/23 00:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/23 11:47	05/17/23 00:25	1

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28379-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28379-3
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 11:47	05/17/23 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*05/16/23 11:47*	*05/17/23 00:25*	*1*
o-Terphenyl	*143*	*S1+*	*70 - 130*	*05/16/23 11:47*	*05/17/23 00:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61.8**		4.98		mg/Kg			05/17/23 12:27	1

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

Lab Sample ID: 880-28379-4
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/16/23 15:10	05/17/23 07:29	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		05/16/23 15:10	05/17/23 07:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/23 15:10	05/17/23 07:29	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		05/16/23 15:10	05/17/23 07:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/23 15:10	05/17/23 07:29	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		05/16/23 15:10	05/17/23 07:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*155*	*S1+*	*70 - 130*	*05/16/23 15:10*	*05/17/23 07:29*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*05/16/23 15:10*	*05/17/23 07:29*	*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			05/17/23 15:53	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			05/17/23 12:07	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	<49.9	U	49.9		mg/Kg		05/16/23 11:47	05/17/23 00:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/23 11:47	05/17/23 00:46	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 11:47	05/17/23 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*05/16/23 11:47*	*05/17/23 00:46*	*1*
o-Terphenyl	*149*	*S1+*	*70 - 130*	*05/16/23 11:47*	*05/17/23 00:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**163**		4.98		mg/Kg			05/17/23 12:33	1

Surrogate Summary

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28379-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-28379-1	H-1 (0-0.5')	177 S1+	79
880-28379-2	H-2 (0-0.5')	182 S1+	82
880-28379-3	H-3 (0-0.5')	153 S1+	81
880-28379-4	H-4 (0-0.5')	155 S1+	82
890-4651-A-1-G MS	Matrix Spike	146 S1+	102
890-4651-A-1-H MSD	Matrix Spike Duplicate	137 S1+	80
LCS 880-53495/1-A	Lab Control Sample	143 S1+	89
LCSD 880-53495/2-A	Lab Control Sample Dup	119	98
MB 880-53382/5-A	Method Blank	83	76
MB 880-53495/5-A	Method Blank	85	76

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-28379-1	H-1 (0-0.5')	111	135 S1+
880-28379-2	H-2 (0-0.5')	110	137 S1+
880-28379-3	H-3 (0-0.5')	124	143 S1+
880-28379-4	H-4 (0-0.5')	130	149 S1+
890-4659-A-9-C MS	Matrix Spike	116	128
890-4659-A-9-D MSD	Matrix Spike Duplicate	112	127
LCS 880-53469/2-A	Lab Control Sample	93	117
LCSD 880-53469/3-A	Lab Control Sample Dup	110	135 S1+
MB 880-53469/1-A	Method Blank	164 S1+	211 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28379-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-53382/5-A
Matrix: Solid
Analysis Batch: 53453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 53382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/15/23 13:08	05/16/23 11:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/15/23 13:08	05/16/23 11:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/15/23 13:08	05/16/23 11:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/15/23 13:08	05/16/23 11:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/15/23 13:08	05/16/23 11:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/15/23 13:08	05/16/23 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*05/15/23 13:08*	*05/16/23 11:44*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*05/15/23 13:08*	*05/16/23 11:44*	*1*

Lab Sample ID: MB 880-53495/5-A
Matrix: Solid
Analysis Batch: 53453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 53495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/23 15:10	05/17/23 01:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/23 15:10	05/17/23 01:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/23 15:10	05/17/23 01:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/16/23 15:10	05/17/23 01:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/23 15:10	05/17/23 01:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/16/23 15:10	05/17/23 01:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*05/16/23 15:10*	*05/17/23 01:01*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*05/16/23 15:10*	*05/17/23 01:01*	*1*

Lab Sample ID: LCS 880-53495/1-A
Matrix: Solid
Analysis Batch: 53453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 53495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1280		mg/Kg		128	70 - 130
Toluene	0.100	0.1330	*+	mg/Kg		133	70 - 130
Ethylbenzene	0.100	0.1209		mg/Kg		121	70 - 130
m-Xylene & p-Xylene	0.200	0.2739	*+	mg/Kg		137	70 - 130
o-Xylene	0.100	0.1251		mg/Kg		125	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 880-53495/2-A
Matrix: Solid
Analysis Batch: 53453

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 53495

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1172		mg/Kg		117	70 - 130	9	35

QC Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28379-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-53495/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 53453 — **Prep Batch: 53495**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1192		mg/Kg		119	70 - 130	11	35
Ethylbenzene			0.100	0.1089		mg/Kg		109	70 - 130	10	35
m-Xylene & p-Xylene			0.200	0.2476		mg/Kg		124	70 - 130	10	35
o-Xylene			0.100	0.1134		mg/Kg		113	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-4651-A-1-G MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 53453 — **Prep Batch: 53495**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.1283		mg/Kg		129	70 - 130
Toluene	<0.00199	U F1 *+	0.0998	0.1339	F1	mg/Kg		134	70 - 130
Ethylbenzene	<0.00199	U	0.0998	0.1167		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	<0.00398	U *+	0.200	0.2596		mg/Kg		130	70 - 130
o-Xylene	<0.00199	U	0.0998	0.1180		mg/Kg		118	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-4651-A-1-H MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 53453 — **Prep Batch: 53495**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1065		mg/Kg		108	70 - 130	19	35
Toluene	<0.00199	U F1 *+	0.0990	0.1114		mg/Kg		112	70 - 130	18	35
Ethylbenzene	<0.00199	U	0.0990	0.08992		mg/Kg		91	70 - 130	26	35
m-Xylene & p-Xylene	<0.00398	U *+	0.198	0.2126		mg/Kg		107	70 - 130	20	35
o-Xylene	<0.00199	U	0.0990	0.09987		mg/Kg		101	70 - 130	17	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*

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

Lab Sample ID: MB 880-53469/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 53450 — **Prep Batch: 53469**

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		05/16/23 11:47	05/16/23 19:50	1

QC Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28379-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-53469/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 53450 — **Prep Batch: 53469**

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		05/16/23 11:47	05/16/23 19:50	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/23 11:47	05/16/23 19:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*164*	*S1+*	*70 - 130*	*05/16/23 11:47*	*05/16/23 19:50*	*1*
o-Terphenyl	*211*	*S1+*	*70 - 130*	*05/16/23 11:47*	*05/16/23 19:50*	*1*

Lab Sample ID: LCS 880-53469/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 53450 — **Prep Batch: 53469**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	918.7		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	933.5		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*117*		*70 - 130*

Lab Sample ID: LCSD 880-53469/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 53450 — **Prep Batch: 53469**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	973.4		mg/Kg		97	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	971.2		mg/Kg		97	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*135*	*S1+*	*70 - 130*

Lab Sample ID: 890-4659-A-9-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 53450 — **Prep Batch: 53469**

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	997	952.0		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1087		mg/Kg		106	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*128*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28379-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-4659-A-9-D MSD
Matrix: Solid
Analysis Batch: 53450

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 53469

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	999	907.1		mg/Kg		88	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1064		mg/Kg		104	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*112*		*70 - 130*
o-Terphenyl	*127*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53363/1-A
Matrix: Solid
Analysis Batch: 53573

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/17/23 11:49	1

Lab Sample ID: LCS 880-53363/2-A
Matrix: Solid
Analysis Batch: 53573

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	237.4		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-53363/3-A
Matrix: Solid
Analysis Batch: 53573

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	237.3		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-28379-1 MS
Matrix: Solid
Analysis Batch: 53573

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	177		253	408.3		mg/Kg		92	90 - 110

Lab Sample ID: 880-28379-1 MSD
Matrix: Solid
Analysis Batch: 53573

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	177		253	407.7		mg/Kg		91	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28379-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 53382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-53382/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 53453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28379-1	H-1 (0-0.5')	Total/NA	Solid	8021B	53495
880-28379-2	H-2 (0-0.5')	Total/NA	Solid	8021B	53495
880-28379-3	H-3 (0-0.5')	Total/NA	Solid	8021B	53495
880-28379-4	H-4 (0-0.5')	Total/NA	Solid	8021B	53495
MB 880-53382/5-A	Method Blank	Total/NA	Solid	8021B	53382
MB 880-53495/5-A	Method Blank	Total/NA	Solid	8021B	53495
LCS 880-53495/1-A	Lab Control Sample	Total/NA	Solid	8021B	53495
LCSD 880-53495/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53495
890-4651-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	53495
890-4651-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	53495

Prep Batch: 53495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28379-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-28379-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-28379-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-28379-4	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-53495/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53495/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53495/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4651-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
890-4651-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 53611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28379-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28379-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28379-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28379-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 53450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28379-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	53469
880-28379-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	53469
880-28379-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	53469
880-28379-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	53469
MB 880-53469/1-A	Method Blank	Total/NA	Solid	8015B NM	53469
LCS 880-53469/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53469
LCSD 880-53469/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53469
890-4659-A-9-C MS	Matrix Spike	Total/NA	Solid	8015B NM	53469
890-4659-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	53469

Prep Batch: 53469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28379-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28379-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 53469 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28379-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28379-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28379-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-53469/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53469/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53469/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4659-A-9-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4659-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28379-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-28379-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-28379-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-28379-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 53363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28379-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-28379-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-28379-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-28379-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-53363/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53363/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53363/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28379-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-28379-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 53573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28379-1	H-1 (0-0.5')	Soluble	Solid	300.0	53363
880-28379-2	H-2 (0-0.5')	Soluble	Solid	300.0	53363
880-28379-3	H-3 (0-0.5')	Soluble	Solid	300.0	53363
880-28379-4	H-4 (0-0.5')	Soluble	Solid	300.0	53363
MB 880-53363/1-A	Method Blank	Soluble	Solid	300.0	53363
LCS 880-53363/2-A	Lab Control Sample	Soluble	Solid	300.0	53363
LCSD 880-53363/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53363
880-28379-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	53363
880-28379-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	53363

Lab Chronicle

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28379-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28379-1
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53495	05/16/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53453	05/17/23 04:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53611	05/17/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			53595	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53469	05/16/23 11:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 23:42	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53573	05/17/23 12:06	CH	EET MID

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

Lab Sample ID: 880-28379-2
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53495	05/16/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53453	05/17/23 05:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53611	05/17/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			53595	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53469	05/16/23 11:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/17/23 00:03	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53573	05/17/23 12:22	CH	EET MID

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

Lab Sample ID: 880-28379-3
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53495	05/16/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53453	05/17/23 07:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53611	05/17/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			53595	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53469	05/16/23 11:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/17/23 00:25	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53573	05/17/23 12:27	CH	EET MID

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

Lab Sample ID: 880-28379-4
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53495	05/16/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53453	05/17/23 07:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53611	05/17/23 15:53	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Job ID: 880-28379-1
Project/Site: White City Penn 28 Gas Com (04.15.2019)
SDG: Eddy County, New Mexico

Client Sample ID: H-4 (0-0.5')
Lab Sample ID: 880-28379-4

Date Collected: 05/11/23 00:00
Matrix: Solid
Date Received: 05/12/23 14:48

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			53595	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53469	05/16/23 11:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/17/23 00:46	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53573	05/17/23 12:33	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
Job ID: 880-28379-1
Project/Site: White City Penn 28 Gas Com (04.15.2019)
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
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	OII 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: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28379-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28379-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28379-1	H-1 (0-0.5')	Solid	05/11/23 00:00	05/12/23 14:48
880-28379-2	H-2 (0-0.5')	Solid	05/11/23 00:00	05/12/23 14:48
880-28379-3	H-3 (0-0.5')	Solid	05/11/23 00:00	05/12/23 14:48
880-28379-4	H-4 (0-0.5')	Solid	05/11/23 00:00	05/12/23 14:48

Work Order No: 28379

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 ☐ rownfields ☐ RC ☐ perfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name:	White City Penn 28 Gas Com (04 15 2019)	Turn Around	
Project Number:	2018	☑ Routine ☐ Rush	
Project Location	Eddy County, New Mexico	Due Date	Normal
Sampler's Name:	GPJ		
PO #:			

SAMPLE RECEIPT			
Temp Blank.	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID	IR6
Cooler Custody Seals.	Yes No N/A	Correction Factor	-.30
Sample Custody Seals.	Yes No N/A	Temperature Reading	-1.3
Total Containers.		Corrected Temperature:	-1.0

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL. HC HNO_3 HN

H_2S0_4 H_2 NaOH Na

H_3PO_4 HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Hold	Sample Comments
H-1 (0- 0.5')	5/11/2023		X		G	1		X	X	X		Yes
H-2 (0- 0 5')	5/11/2023		X		G	1		X	X	X		
H-3 (0- 0 5')	5/11/2023		X		G	1		X	X	X		
H-4 (0- 0 5')	5/11/2023		X		G	1		X	X	X		

Parameters

ANALYSIS REQUEST

880-28379 Chain of Custody

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Ariana Thomas	5-12-23 1448		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-28379-1
SDG Number: Eddy County, New Mexico

Login Number: 28379
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 15, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: WHITE CITY PENN 28 GAS COM (04.15.2019)

Enclosed are the results of analyses for samples received by the laboratory on 03/14/24 16:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 1 (5.5') (H241342-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.1	
Toluene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.2	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	2.16	108	2.00	17.7	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	6.46	108	6.00	16.0	
Total BTEX	<0.300	0.300	03/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	03/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	210	105	200	0.565	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	205	102	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *105 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 2 (5.5') (H241342-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.1	
Toluene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.2	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	2.16	108	2.00	17.7	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	6.46	108	6.00	16.0	
Total BTEX	<0.300	0.300	03/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**992**	16.0	03/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	210	105	200	0.565	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	205	102	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *106 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *106 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 3 (5.5') (H241342-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.1	
Toluene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.2	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	2.16	108	2.00	17.7	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	6.46	108	6.00	16.0	
Total BTEX	<0.300	0.300	03/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**272**	16.0	03/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	210	105	200	0.565	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	205	102	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *112 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *113 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 4 (5.5') (H241342-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.1	
Toluene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.2	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	2.16	108	2.00	17.7	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	6.46	108	6.00	16.0	
Total BTEX	<0.300	0.300	03/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**496**	16.0	03/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	210	105	200	0.565	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	205	102	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *105 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *106 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 5 (12.5') (H241342-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.1	
Toluene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.2	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	2.16	108	2.00	17.7	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	6.46	108	6.00	16.0	
Total BTEX	<0.300	0.300	03/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**352**	16.0	03/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	210	105	200	0.565	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	205	102	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *99.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *96.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 6 (12.5') (H241342-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.1	
Toluene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.2	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	2.16	108	2.00	17.7	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	6.46	108	6.00	16.0	
Total BTEX	<0.300	0.300	03/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**592**	16.0	03/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	210	105	200	0.565	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	205	102	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *97.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *101 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 7 (12.5') (H241342-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.1	
Toluene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.2	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	2.16	108	2.00	17.7	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	6.46	108	6.00	16.0	
Total BTEX	<0.300	0.300	03/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**880**	16.0	03/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	210	105	200	0.565	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	205	102	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *104 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 8 (12.5') (H241342-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.1	
Toluene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.2	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	2.16	108	2.00	17.7	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	6.46	108	6.00	16.0	
Total BTEX	<0.300	0.300	03/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**448**	16.0	03/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	210	105	200	0.565	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	205	102	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *113 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *113 %* *49.1-148*

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CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 9 (12.5') (H241342-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.1	
Toluene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.2	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	2.16	108	2.00	17.7	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	6.46	108	6.00	16.0	
Total BTEX	<0.300	0.300	03/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**800**	16.0	03/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	210	105	200	0.565	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	205	102	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *102 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 10 (1.5') (H241342-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.1	
Toluene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.2	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	2.16	108	2.00	17.7	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	6.46	108	6.00	16.0	
Total BTEX	<0.300	0.300	03/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	03/15/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	210	105	200	0.565	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	205	102	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *110 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *111 %* *49.1-148*

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CARDINAL Laboratories

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 11 (1.5') (H241342-11)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.1	
Toluene*	<0.050	0.050	03/14/2024	ND	2.22	111	2.00	17.2	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	2.16	108	2.00	17.7	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	6.46	108	6.00	16.0	
Total BTEX	<0.300	0.300	03/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	03/15/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	210	105	200	0.565	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	205	102	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *101 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 12 (1.5') (H241342-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.22	111	2.00	17.1	
Toluene*	<0.050	0.050	03/15/2024	ND	2.22	111	2.00	17.2	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.16	108	2.00	17.7	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.46	108	6.00	16.0	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	03/15/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	210	105	200	0.565	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	205	102	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *102 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *105 %* *49.1-148*

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CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 1 (5.5') (H241342-13)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.20	110	2.00	13.6	
Toluene*	<0.050	0.050	03/15/2024	ND	2.15	107	2.00	13.1	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.11	106	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.18	103	6.00	13.3	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	03/15/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	210	105	200	0.565	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	205	102	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *104 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *107 %* *49.1-148*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 2 (5.5') (H241342-14)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.20	110	2.00	13.6	
Toluene*	<0.050	0.050	03/15/2024	ND	2.15	107	2.00	13.1	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.11	106	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.18	103	6.00	13.3	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**320**	16.0	03/15/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	210	105	200	0.565	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	205	102	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *116 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *120 %* *49.1-148*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 3 (5.5') (H241342-15)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.20	110	2.00	13.6	
Toluene*	<0.050	0.050	03/15/2024	ND	2.15	107	2.00	13.1	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.11	106	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.18	103	6.00	13.3	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	03/15/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	210	105	200	0.565	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	205	102	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *108 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *112 %* *49.1-148*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 4 (7.0') (H241342-16)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.20	110	2.00	13.6	
Toluene*	<0.050	0.050	03/15/2024	ND	2.15	107	2.00	13.1	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.11	106	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.18	103	6.00	13.3	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**608**	16.0	03/15/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	239	120	200	8.62	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	226	113	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *99.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *114 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 5 (7.0') (H241342-17)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.20	110	2.00	13.6	
Toluene*	<0.050	0.050	03/15/2024	ND	2.15	107	2.00	13.1	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.11	106	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.18	103	6.00	13.3	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**512**	16.0	03/15/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	239	120	200	8.62	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	226	113	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *108 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *127 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 6 (12.5') (H241342-18)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.20	110	2.00	13.6	
Toluene*	<0.050	0.050	03/15/2024	ND	2.15	107	2.00	13.1	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.11	106	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.18	103	6.00	13.3	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**352**	16.0	03/15/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	239	120	200	8.62	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	226	113	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *92.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *109 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 7 (12.5') (H241342-19)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.20	110	2.00	13.6	
Toluene*	<0.050	0.050	03/15/2024	ND	2.15	107	2.00	13.1	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.11	106	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.18	103	6.00	13.3	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**320**	16.0	03/15/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	239	120	200	8.62	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	226	113	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *86.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 8 (12.5') (H241342-20)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.20	110	2.00	13.6	
Toluene*	<0.050	0.050	03/15/2024	ND	2.15	107	2.00	13.1	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.11	106	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.18	103	6.00	13.3	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**800**	16.0	03/15/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	239	120	200	8.62	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	226	113	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *100 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *117 %* *49.1-148*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 9 (12.5') (H241342-21)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.20	110	2.00	13.6	
Toluene*	<0.050	0.050	03/15/2024	ND	2.15	107	2.00	13.1	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.11	106	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.18	103	6.00	13.3	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**912**	16.0	03/15/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	239	120	200	8.62	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	226	113	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *99.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *112 %* *49.1-148*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 10 (12.5') (H241342-22)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.20	110	2.00	13.6	
Toluene*	<0.050	0.050	03/15/2024	ND	2.15	107	2.00	13.1	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.11	106	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.18	103	6.00	13.3	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**944**	16.0	03/15/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	239	120	200	8.62	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	226	113	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *107 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *129 %* *49.1-148*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 11 (12.5') (H241342-23)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.22	111	2.00	1.58	
Toluene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	1.40	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.13	106	2.00	1.38	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.34	106	6.00	0.650	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**544**	16.0	03/15/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	239	120	200	8.62	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	226	113	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *96.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *114 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/15/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 12 (1.5') (H241342-24)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.22	111	2.00	1.58	
Toluene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	1.40	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.13	106	2.00	1.38	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.34	106	6.00	0.650	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	03/15/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	239	120	200	8.62	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	226	113	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *104 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *117 %* *49.1-148*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H241342

Page 1 of 3

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:	6001 Deauville Blvd, Suite 300N
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79706
Phone:	432-813-8988	Email:	laci.luig@coterra.com ashton.thielke@coterra.com

Work Order Comments

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

State of Project:

Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	White City Penn 28 Gas Com (04.15.2019)	Turn Around	☐ Routine ☑ Rush
Project Number:	2018	Due Date:	~~Normal~~ 24 hrs
Project Location	Eddy County, New Mexico		
Sampler's Name:	MM		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	140
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	-2.4°c
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Sample Comments
CS-1 (5.5')	3/14/2024		X		C	1		X	X	X	
CS-2 (5.5')	3/14/2024		X		C	1		X	X	X	
CS-3 (5.5')	3/14/2024		X		C	1		X	X	X	
CS-4 (5.5')	3/14/2024		X		C	1		X	X	X	
CS-5 (12.5')	3/14/2024		X		C	1		X	X	X	
CS-6 (12.5')	3/14/2024		X		C	1		X	X	X	
CS-7 (12.5')	3/14/2024		X		C	1		X	X	X	
CS-8 (12.5')	3/14/2024		X		C	1		X	X	X	
CS-9 (12.5')	3/14/2024		X		C	1		X	X	X	
CS-10 (1.5')	3/14/2024		X		C	1		X	X	X	

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	3-14-24 1638		

Chain of Custody

Work Order No: H241342

Page 2 of 3

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:	6001 Deauville Blvd, Suite 300N
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79706
Phone:	432-813-8988	Email:	laci.luig@coterra.com ashton.thielke@coterra.com

Work Order Comments

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

State of Project:

Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	White City Penn 28 Gas Com (04.15.2019)	Turn Around	
Project Number:	2018	☐ Routine ☑ Rush	
Project Location	Eddy County, New Mexico	Due Date:	~~Normal~~
Sampler's Name:	MM	24 hrs	24
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Received Intact:	(Yes) No	Thermometer ID:	140	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	—	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	-2.4c	
Total Containers:		Corrected Temperature:	—	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

	Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Sample Comments
11	CS-11 (1.5')	3/14/2024		X		C	1		X	X	X	
12	CS-12 (1.5')	3/14/2024		X		C	1		X	X	X	
13	SW-1 (5.5')	3/14/2024		X		C	1		X	X	X	
14	SW-2 (5.5')	3/14/2024		X		C	1		X	X	X	
15	SW-3 (5.5')	3/14/2024		X		C	1		X	X	X	
16	SW-4 (7.0')	3/14/2024		X		C	1		X	X	X	
17	SW-5 (7.0')	3/14/2024		X		C	1		X	X	X	
18	SW-6 (12.5')	3/14/2024		X		C	1		X	X	X	
19	SW-7 (12.5')	3/14/2024		X		C	1		X	X	X	
20	SW-8 (12.5')	3/14/2024		X		C	1		X	X	X	

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	3-14-24 1638		

Chain of Custody

Work Order No: H241342

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:	6001 Deauville Blvd, Suite 300N
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79706
Phone:	432-813-8988	Email:	laci.luig@coterra.com ashton.thielke@coterra.com

Page 3 of 3

Work Order Comments

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

State of Project:

Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	White City Penn 28 Gas Com (04.15.2019)	Turn Around	
Project Number:	2018	☐ Routine ☑ Rush	
Project Location	Eddy County, New Mexico	Due Date:	~~Normal~~
Sampler's Name:	MM	24 hrs	24
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	140
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	-2.4°C
Total Containers:		Corrected Temperature:	

T: 3/14/24

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500
SW-9 (12.5')	3/14/2024		X		C	1	X	X	X
SW-10 (12.5')	3/14/2024		X		C	1	X	X	X
SW-11 (12.5')	3/14/2024		X		C	1	X	X	X
SW-12 (1.5')	3/14/2024		X		C	1	X	X	X
~~SW-13 (1.5')~~	~~3/14/2024~~		~~X~~		~~C~~	~~1~~	~~X~~	~~X~~	~~X~~
~~SW-14 (1.5')~~	~~3/14/2024~~		~~X~~		~~C~~	~~1~~	~~X~~	~~X~~	~~X~~
~~SW-15 (1.5')~~	~~3/14/2024~~		~~X~~		~~C~~	~~1~~	~~X~~	~~X~~	~~X~~

NO Samples

T: 3/15/24

Pres. Code / Parameters

Preservative Codes

None: NO — DI Water: H_2O

Cool: Cool — MeOH: Me

HCL: HC — HNO_3: HN

H_2S0_4: H_2 — NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Sample Comments

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	3-14-24 1638		

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 18, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: WHITE CITY PENN 28 GAS COM (04.15.2019)

Enclosed are the results of analyses for samples received by the laboratory on 03/15/24 14:32.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/15/2024	Sampling Date:	03/14/2024
Reported:	03/18/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Dionica Hinojos
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: SW - 13 (1.5') (H241362-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.20	110	2.00	2.38	
Toluene*	<0.050	0.050	03/15/2024	ND	2.16	108	2.00	2.31	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.14	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.26	104	6.00	2.67	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**336**	16.0	03/18/2024	ND	416	104	400	7.41	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2024	ND	239	120	200	8.62	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	226	113	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane *111 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *122 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/15/2024	Sampling Date:	03/14/2024
Reported:	03/18/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Dionica Hinojos
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: SW - 14 (1.5') (H241362-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.20	110	2.00	2.38	
Toluene*	<0.050	0.050	03/15/2024	ND	2.16	108	2.00	2.31	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.14	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.26	104	6.00	2.67	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	03/18/2024	ND	416	104	400	7.41	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	239	120	200	8.62	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	226	113	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *87.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.5 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/15/2024	Sampling Date:	03/14/2024
Reported:	03/18/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Dionica Hinojos
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: SW - 15 (1.5') (H241362-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.20	110	2.00	2.38	
Toluene*	<0.050	0.050	03/15/2024	ND	2.16	108	2.00	2.31	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.14	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.26	104	6.00	2.67	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	03/18/2024	ND	416	104	400	7.41	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	239	120	200	8.62	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	226	113	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane *73.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *78.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H241362

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:	6001 Deauville Blvd, Suite 300N
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79706
Phone:	432-813-8988	Email:	laci.luig@coterra.com ashton.thielke@coterra.com

Work Order Comments

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

State of Project:

Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	White City Penn 28 Gas Com (04.15.2019)	Turn Around	☐ Routine ☑ Rush
Project Number:	2018	Due Date:	Normal
Project Location	Eddy County, New Mexico		24 hrs
Sampler's Name:	MM		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	140
Cooler Custody Seals:	Yes No N/A	Correction Factor:	—
Sample Custody Seals:	Yes No N/A	Temperature Reading:	2.3°C
Total Containers:	3	Corrected Temperature:	—

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Sample Comments
SW-13 (1.5')	3/14/2024		X		C	1		X	X	X	1
SW-14 (1.5')	3/14/2024		X		C	1		X	X	X	2
SW-15 (1.5')	3/14/2024		X		C	1		X	X	X	3

Parameters

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	3-15-24/14:32		

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 20, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: WHITE CITY PENN 28 GAS COM (04.15.2019)

Enclosed are the results of analyses for samples received by the laboratory on 03/19/24 12:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/19/2024	Sampling Date:	03/19/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: CS - 2 (6') (H241422-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2024	ND	2.04	102	2.00	7.14	
Toluene*	<0.050	0.050	03/19/2024	ND	2.05	103	2.00	0.507	
Ethylbenzene*	<0.050	0.050	03/19/2024	ND	2.13	107	2.00	2.51	
Total Xylenes*	<0.150	0.150	03/19/2024	ND	6.43	107	6.00	4.91	
Total BTEX	<0.300	0.300	03/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	03/20/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	202	101	200	17.3	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	216	108	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane *96.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/19/2024	Sampling Date:	03/19/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: CS - 7 (13') (H241422-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2024	ND	2.04	102	2.00	7.14	
Toluene*	<0.050	0.050	03/19/2024	ND	2.05	103	2.00	0.507	
Ethylbenzene*	<0.050	0.050	03/19/2024	ND	2.13	107	2.00	2.51	
Total Xylenes*	<0.150	0.150	03/19/2024	ND	6.43	107	6.00	4.91	
Total BTEX	<0.300	0.300	03/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**832**	16.0	03/20/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	202	101	200	17.3	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	216	108	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane *89.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *100 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/19/2024	Sampling Date:	03/19/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: CS - 9 (13') (H241422-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2024	ND	2.04	102	2.00	7.14	
Toluene*	<0.050	0.050	03/19/2024	ND	2.05	103	2.00	0.507	
Ethylbenzene*	<0.050	0.050	03/19/2024	ND	2.13	107	2.00	2.51	
Total Xylenes*	<0.150	0.150	03/19/2024	ND	6.43	107	6.00	4.91	
Total BTEX	<0.300	0.300	03/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**592**	16.0	03/20/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	202	101	200	17.3	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	216	108	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane *92.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *107 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/19/2024	Sampling Date:	03/19/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: SW - 4 (7') (H241422-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2024	ND	2.04	102	2.00	7.14	
Toluene*	<0.050	0.050	03/19/2024	ND	2.05	103	2.00	0.507	
Ethylbenzene*	<0.050	0.050	03/19/2024	ND	2.13	107	2.00	2.51	
Total Xylenes*	<0.150	0.150	03/19/2024	ND	6.43	107	6.00	4.91	
Total BTEX	<0.300	0.300	03/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**720**	16.0	03/20/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	202	101	200	17.3	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	216	108	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane *96.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *109 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/19/2024	Sampling Date:	03/19/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: SW - 8 (13') (H241422-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2024	ND	2.04	102	2.00	7.14	
Toluene*	<0.050	0.050	03/19/2024	ND	2.05	103	2.00	0.507	
Ethylbenzene*	<0.050	0.050	03/19/2024	ND	2.13	107	2.00	2.51	
Total Xylenes*	<0.150	0.150	03/19/2024	ND	6.43	107	6.00	4.91	
Total BTEX	<0.300	0.300	03/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**480**	16.0	03/20/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2024	ND	202	101	200	17.3	
DRO >C10-C28*	<10.0	10.0	03/20/2024	ND	216	108	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/20/2024	ND					

Surrogate: 1-Chlorooctane *129 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *124 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/19/2024	Sampling Date:	03/19/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: SW - 9 (13') (H241422-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2024	ND	2.14	107	2.00	3.75	
Toluene*	<0.050	0.050	03/19/2024	ND	2.13	106	2.00	3.96	
Ethylbenzene*	<0.050	0.050	03/19/2024	ND	2.07	104	2.00	3.92	
Total Xylenes*	<0.150	0.150	03/19/2024	ND	6.28	105	6.00	3.80	
Total BTEX	<0.300	0.300	03/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**496**	16.0	03/20/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	202	101	200	17.3	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	216	108	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane *92.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/19/2024	Sampling Date:	03/19/2024
Reported:	03/20/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: SW - 10 (13') (H241422-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2024	ND	2.14	107	2.00	3.75	
Toluene*	<0.050	0.050	03/19/2024	ND	2.13	106	2.00	3.96	
Ethylbenzene*	<0.050	0.050	03/19/2024	ND	2.07	104	2.00	3.92	
Total Xylenes*	<0.150	0.150	03/19/2024	ND	6.28	105	6.00	3.80	
Total BTEX	<0.300	0.300	03/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**592**	16.0	03/20/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	202	101	200	17.3	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	216	108	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane *92.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H241422

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:	6001 Deauville Blvd, Suite 300N
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79706
Phone:	432-813-8988	Email:	laci.luig@coterra.com ashton.thielke@coterra.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	White City Penn 28 Gas Com (04.15.2019)	Turn Around	☐ Routine ☑ Rush
Project Number:	2018	Due Date:	Normal
Project Location	Eddy County, New Mexico		24 hrs
Sampler's Name:	MM		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Received Intact:	(Yes) No	Thermometer ID:	140
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.3°C
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Sample Comments
CS-2 (6')	3/19/2024		X		C	1		X	X	X	
CS-7 (13')	3/19/2024		X		C	1		X	X	X	
CS-9 (13')	3/19/2024		X		C	1		X	X	X	
SW-4 (7')	3/19/2024		X		C	1		X	X	X	
SW-8 (13')	3/19/2024		X		C	1		X	X	X	
SW-9 (13')	3/19/2024		X		C	1		X	X	X	
SW-10 (13')	3/19/2024		X		C	1		X	X	X	

1 2 3 4 5 6 7

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	3-19-24 1252		

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 25, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: WHITE CITY PENN 28 GAS COM (04.15.2019)

Enclosed are the results of analyses for samples received by the laboratory on 03/22/24 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/22/2024	Sampling Date:	03/22/2024
Reported:	03/25/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: CS - 7 (13.25') (H241519-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2024	ND	2.14	107	2.00	1.57	
Toluene*	<0.050	0.050	03/22/2024	ND	2.10	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	03/22/2024	ND	2.06	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	03/22/2024	ND	6.00	99.9	6.00	1.35	
Total BTEX	<0.300	0.300	03/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	03/25/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2024	ND	189	94.5	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/23/2024	ND	197	98.4	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	03/23/2024	ND					

Surrogate: 1-Chlorooctane *87.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *83.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/22/2024	Sampling Date:	03/22/2024
Reported:	03/25/2024	Sampling Type:	Soil
Project Name:	WHITE CITY PENN 28 GAS COM (04.15.2	Sampling Condition:	Cool & Intact
Project Number:	2018	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: SW - 4 (7.0') (H241519-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2024	ND	2.14	107	2.00	1.57	
Toluene*	<0.050	0.050	03/22/2024	ND	2.10	105	2.00	1.65	
Ethylbenzene*	<0.050	0.050	03/22/2024	ND	2.06	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	03/22/2024	ND	6.00	99.9	6.00	1.35	
Total BTEX	<0.300	0.300	03/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	03/25/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2024	ND	189	94.5	200	3.63	
DRO >C10-C28*	<10.0	10.0	03/23/2024	ND	197	98.4	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	03/23/2024	ND					

Surrogate: 1-Chlorooctane *84.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *79.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H241519

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:	6001 Deauville Blvd, Suite 300N
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79706
Phone:	432-813-8988	Email:	laci.luig@coterra.com ashton.thielke@coterra.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	White City Penn 28 Gas Com (04.15.2019)	Turn Around	
Project Number:	2018	☐ Routine ☑ Rush	
Project Location	Eddy County, New Mexico	Due Date:	24 hr.
Sampler's Name:	GPJ		24 hrs
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Received Intact:	(Yes) No	Thermometer ID:	140	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	—	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.6°C	
Total Containers:		Corrected Temperature:	—	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500
1 CS-7 (13.25')	3/22/2024		X		C	1		X	X	X
2 SW-4 (7.0')	3/22/2024		X		C	1		X	X	X

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Comments

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	3-22-24/16:00		

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 5/22/2023 3:54:11 PM

JOB DESCRIPTION

White City Penn 28 Gas Com (04.15.2019)
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-28380-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

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
5/22/2023 3:54:11 PM

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

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Laboratory Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
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.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Job ID: 880-28380-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-28380-1

Receipt
The samples were received on 5/12/2023 2:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: T-1 (0-1') (880-28380-1), T-1 (1'-1.5') (880-28380-2), T-1 (1.5'-2') (880-28380-3), T-2 (0-1') (880-28380-4), T-2 (1'-1.5') (880-28380-5), T-2 (1.5'-2') (880-28380-6), T-2 (2'-3') (880-28380-7), T-2 (3'-4') (880-28380-8), T-2 (4'-5') (880-28380-9), T-2 (5'-6') (880-28380-10), T-2 (6'-7') (880-28380-11), T-2 (7'-8") (880-28380-12), T-2 (8'-9') (880-28380-13), T-2 (9'-10') (880-28380-14), T-2 (10'-11') (880-28380-15), T-2 (11'-12') (880-28380-16), T-3 (0-1') (880-28380-17), T-3 (1'-1.5') (880-28380-18), T-3 (1.5'-2') (880-28380-19), T-3 (2'-3') (880-28380-20), T-3 (3'-4) (880-28380-21), T-3 (4'-5') (880-28380-22), T-3 (5'-6') (880-28380-23) and T-3 (6'-7') (880-28380-24).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-53588 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene, o-Xylene and Xylenes, Total. The samples associated with this CCV were non-detects for the affected analytes

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-53588/2), (CCV 880-53588/20), (CCV 880-53588/33), (LCS 880-53508/1-A) and (LCSD 880-53508/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-28380-A-1-E MS) and (880-28380-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: T-1 (0-1') (880-28380-1), T-1 (1'-1.5') (880-28380-2), T-1 (1.5'-2') (880-28380-3), T-2 (0-1') (880-28380-4), T-2 (1'-1.5') (880-28380-5), T-2 (1.5'-2') (880-28380-6), T-2 (2'-3') (880-28380-7), T-2 (3'-4') (880-28380-8), T-2 (4'-5') (880-28380-9) and T-2 (5'-6') (880-28380-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: T-2 (6'-7') (880-28380-11), T-2 (7'-8") (880-28380-12), T-2 (8'-9') (880-28380-13), T-2 (9'-10') (880-28380-14), T-2 (10'-11') (880-28380-15), T-2 (11'-12') (880-28380-16), T-3 (0-1') (880-28380-17), T-3 (1'-1.5') (880-28380-18), T-3 (1.5'-2') (880-28380-19) and T-3 (2'-3') (880-28380-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-53508 and analytical batch 880-53588 recovered outside control limits for the following analytes: Benzene, Toluene, m-Xylene & p-Xylene, o-Xylene and Xylenes, Total. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-53508 and analytical batch 880-53588 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-53575 and analytical batch 880-53791 recovered outside control limits for the following analytes: Benzene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-53575 and analytical batch 880-53791 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.

Case Narrative

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Job ID: 880-28380-1 (Continued)

Laboratory: Eurofins Midland (Continued)

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-53326/15), (CCV 880-53326/31), (CCV 880-53326/42) and (LCSD 880-53388/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-53388 and analytical batch 880-53326 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: T-3 (4'-5') (880-28380-22), T-3 (5'-6') (880-28380-23) and T-3 (6'-7') (880-28380-24). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-53454 and analytical batch 880-53450 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: T-1 (0-1') (880-28380-1), T-1 (1.5'-2') (880-28380-3), T-2 (1'-1.5') (880-28380-5) and T-2 (1.5'-2') (880-28380-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: T-2 (4'-5') (880-28380-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: T-2 (6'-7') (880-28380-11), T-2 (7'-8") (880-28380-12), T-2 (8'-9') (880-28380-13), T-2 (9'-10') (880-28380-14) and T-2 (10'-11') (880-28380-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: T-3 (0-1') (880-28380-17), T-3 (1'-1.5') (880-28380-18), T-3 (1.5'-2') (880-28380-19) and T-3 (2'-3') (880-28380-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28380-1
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+ F1	0.00200		mg/Kg		05/16/23 16:07	05/17/23 15:20	1
Toluene	<0.00200	U *+ F1 *-*1	0.00200		mg/Kg		05/16/23 16:07	05/17/23 15:20	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		05/16/23 16:07	05/17/23 15:20	1
m-Xylene & p-Xylene	<0.00401	U *+ F1	0.00401		mg/Kg		05/16/23 16:07	05/17/23 15:20	1
o-Xylene	<0.00200	U *+ F1	0.00200		mg/Kg		05/16/23 16:07	05/17/23 15:20	1
Xylenes, Total	<0.00401	U *+ F1	0.00401		mg/Kg		05/16/23 16:07	05/17/23 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*174*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/17/23 15:20*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*05/16/23 16:07*	*05/17/23 15:20*	*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			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/17/23 12:07	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	<49.9	U	49.9		mg/Kg		05/16/23 08:19	05/16/23 11:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/23 08:19	05/16/23 11:11	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 08:19	05/16/23 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*05/16/23 08:19*	*05/16/23 11:11*	*1*
o-Terphenyl	*137*	*S1+*	*70 - 130*	*05/16/23 08:19*	*05/16/23 11:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2110**		50.2		mg/Kg			05/17/23 12:38	10

Client Sample ID: T-1 (1'-1.5')

Lab Sample ID: 880-28380-2
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/16/23 16:07	05/17/23 15:46	1
Toluene	<0.00200	U *+ *- *1	0.00200		mg/Kg		05/16/23 16:07	05/17/23 15:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/23 16:07	05/17/23 15:46	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		05/16/23 16:07	05/17/23 15:46	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		05/16/23 16:07	05/17/23 15:46	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		05/16/23 16:07	05/17/23 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*177*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/17/23 15:46*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*05/16/23 16:07*	*05/17/23 15:46*	*1*

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (1'-1.5')

Lab Sample ID: 880-28380-2
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/17/23 12:07	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	<49.9	U	49.9		mg/Kg		05/16/23 08:19	05/16/23 12:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/23 08:19	05/16/23 12:16	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 08:19	05/16/23 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/16/23 08:19*	*05/16/23 12:16*	*1*
o-Terphenyl	*129*		*70 - 130*	*05/16/23 08:19*	*05/16/23 12:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**405**		25.2		mg/Kg			05/17/23 12:54	5

Client Sample ID: T-1 (1.5'-2')

Lab Sample ID: 880-28380-3
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/16/23 16:07	05/17/23 16:11	1
Toluene	<0.00199	U *+ *- *1	0.00199		mg/Kg		05/16/23 16:07	05/17/23 16:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/16/23 16:07	05/17/23 16:11	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		05/16/23 16:07	05/17/23 16:11	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		05/16/23 16:07	05/17/23 16:11	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		05/16/23 16:07	05/17/23 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*205*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/17/23 16:11*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/16/23 16:07*	*05/17/23 16:11*	*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			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/17/23 12:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 12:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 12:38	1

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (1.5'-2')

Lab Sample ID: 880-28380-3
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*05/16/23 08:19*	*05/16/23 12:38*	*1*
o-Terphenyl	*137*	*S1+*	*70 - 130*	*05/16/23 08:19*	*05/16/23 12:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**109**		5.04		mg/Kg			05/17/23 13:00	1

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

Lab Sample ID: 880-28380-4
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/16/23 16:07	05/17/23 16:37	1
Toluene	<0.00199	U *+ *- *1	0.00199		mg/Kg		05/16/23 16:07	05/17/23 16:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/16/23 16:07	05/17/23 16:37	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		05/16/23 16:07	05/17/23 16:37	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		05/16/23 16:07	05/17/23 16:37	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		05/16/23 16:07	05/17/23 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*193*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/17/23 16:37*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*05/16/23 16:07*	*05/17/23 16:37*	*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			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/17/23 12:07	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		05/16/23 08:19	05/16/23 12:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/16/23 08:19	05/16/23 12:59	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/16/23 08:19	05/16/23 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/16/23 08:19*	*05/16/23 12:59*	*1*
o-Terphenyl	*129*		*70 - 130*	*05/16/23 08:19*	*05/16/23 12:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10600**		250		mg/Kg			05/17/23 13:05	50

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (1'-1.5')

Lab Sample ID: 880-28380-5
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/16/23 16:07	05/17/23 17:03	1
Toluene	<0.00200	U *+ *- *1	0.00200		mg/Kg		05/16/23 16:07	05/17/23 17:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/23 16:07	05/17/23 17:03	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		05/16/23 16:07	05/17/23 17:03	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		05/16/23 16:07	05/17/23 17:03	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		05/16/23 16:07	05/17/23 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*205*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/17/23 17:03*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*05/16/23 16:07*	*05/17/23 17:03*	*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			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/17/23 12:07	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	<49.9	U	49.9		mg/Kg		05/16/23 08:19	05/16/23 13:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/23 08:19	05/16/23 13:21	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 08:19	05/16/23 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*05/16/23 08:19*	*05/16/23 13:21*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*05/16/23 08:19*	*05/16/23 13:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1200**		49.6		mg/Kg			05/17/23 13:10	10

Client Sample ID: T-2 (1.5'-2')

Lab Sample ID: 880-28380-6
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/16/23 16:07	05/17/23 17:29	1
Toluene	<0.00200	U *+ *- *1	0.00200		mg/Kg		05/16/23 16:07	05/17/23 17:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/23 16:07	05/17/23 17:29	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401		mg/Kg		05/16/23 16:07	05/17/23 17:29	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		05/16/23 16:07	05/17/23 17:29	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		05/16/23 16:07	05/17/23 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*195*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/17/23 17:29*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*05/16/23 16:07*	*05/17/23 17:29*	*1*

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (1.5'-2')

Lab Sample ID: 880-28380-6
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/17/23 12:07	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		05/16/23 08:19	05/16/23 13:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/16/23 08:19	05/16/23 13:42	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/16/23 08:19	05/16/23 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*05/16/23 08:19*	*05/16/23 13:42*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*05/16/23 08:19*	*05/16/23 13:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2700**		101		mg/Kg			05/17/23 13:16	20

Client Sample ID: T-2 (2'-3')

Lab Sample ID: 880-28380-7
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/16/23 16:07	05/17/23 17:54	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		05/16/23 16:07	05/17/23 17:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/23 16:07	05/17/23 17:54	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		05/16/23 16:07	05/17/23 17:54	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		05/16/23 16:07	05/17/23 17:54	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		05/16/23 16:07	05/17/23 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*190*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/17/23 17:54*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/16/23 16:07*	*05/17/23 17:54*	*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			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1650**		49.9		mg/Kg			05/17/23 12:07	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	<49.9	U	49.9		mg/Kg		05/16/23 08:19	05/16/23 14:04	1
Diesel Range Organics (Over C10-C28)	**1430**		49.9		mg/Kg		05/16/23 08:19	05/16/23 14:04	1

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Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (2'-3')

Lab Sample ID: 880-28380-7
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	216		49.9		mg/Kg		05/16/23 08:19	05/16/23 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*05/16/23 08:19*	*05/16/23 14:04*	*1*
o-Terphenyl	*130*		*70 - 130*	*05/16/23 08:19*	*05/16/23 14:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2780		99.8		mg/Kg			05/17/23 13:21	20

Client Sample ID: T-2 (3'-4')

Lab Sample ID: 880-28380-8
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/16/23 16:07	05/17/23 18:21	1
Toluene	<0.00198	U *+	0.00198		mg/Kg		05/16/23 16:07	05/17/23 18:21	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/16/23 16:07	05/17/23 18:21	1
m-Xylene & p-Xylene	<0.00396	U *+	0.00396		mg/Kg		05/16/23 16:07	05/17/23 18:21	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		05/16/23 16:07	05/17/23 18:21	1
Xylenes, Total	<0.00396	U *+	0.00396		mg/Kg		05/16/23 16:07	05/17/23 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*200*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/17/23 18:21*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/16/23 16:07*	*05/17/23 18:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/17/23 12:07	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	<49.9	U	49.9		mg/Kg		05/16/23 08:19	05/16/23 14:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/23 08:19	05/16/23 14:26	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 08:19	05/16/23 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*05/16/23 08:19*	*05/16/23 14:26*	*1*
o-Terphenyl	*130*		*70 - 130*	*05/16/23 08:19*	*05/16/23 14:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3330		99.6		mg/Kg			05/17/23 13:37	20

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (4'-5')

Lab Sample ID: 880-28380-9
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/16/23 16:07	05/17/23 18:47	1
Toluene	<0.00200	U *+ *- *1	0.00200		mg/Kg		05/16/23 16:07	05/17/23 18:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/23 16:07	05/17/23 18:47	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		05/16/23 16:07	05/17/23 18:47	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		05/16/23 16:07	05/17/23 18:47	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		05/16/23 16:07	05/17/23 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*203*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/17/23 18:47*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*05/16/23 16:07*	*05/17/23 18:47*	*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			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/17/23 12:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 14:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 14:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*05/16/23 08:19*	*05/16/23 14:47*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*05/16/23 08:19*	*05/16/23 14:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4450**		99.4		mg/Kg			05/17/23 13:42	20

Client Sample ID: T-2 (5'-6')

Lab Sample ID: 880-28380-10
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/16/23 16:07	05/17/23 19:13	1
Toluene	<0.00199	U *+ *- *1	0.00199		mg/Kg		05/16/23 16:07	05/17/23 19:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/16/23 16:07	05/17/23 19:13	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		05/16/23 16:07	05/17/23 19:13	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		05/16/23 16:07	05/17/23 19:13	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		05/16/23 16:07	05/17/23 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*202*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/17/23 19:13*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*05/16/23 16:07*	*05/17/23 19:13*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (5'-6')

Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

Lab Sample ID: 880-28380-10
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/17/23 12:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 15:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 15:09	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/16/23 08:19*	*05/16/23 15:09*	*1*
o-Terphenyl	*129*		*70 - 130*	*05/16/23 08:19*	*05/16/23 15:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4320**		100		mg/Kg			05/17/23 13:59	20

Client Sample ID: T-2 (6'-7')

Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

Lab Sample ID: 880-28380-11
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		05/16/23 16:07	05/17/23 20:56	1
Toluene	<0.00200	U *+ *- *1	0.00200		mg/Kg		05/16/23 16:07	05/17/23 20:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/23 16:07	05/17/23 20:56	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		05/16/23 16:07	05/17/23 20:56	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		05/16/23 16:07	05/17/23 20:56	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		05/16/23 16:07	05/17/23 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*179*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/17/23 20:56*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*05/16/23 16:07*	*05/17/23 20:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/17/23 12:07	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		05/16/23 08:19	05/16/23 15:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/16/23 08:19	05/16/23 15:53	1

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (6'-7')

Lab Sample ID: 880-28380-11
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/16/23 08:19	05/16/23 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*05/16/23 08:19*	*05/16/23 15:53*	*1*
o-Terphenyl	*142*	*S1+*	*70 - 130*	*05/16/23 08:19*	*05/16/23 15:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5860**		101		mg/Kg			05/17/23 14:04	20

Client Sample ID: T-2 (7'-8")

Lab Sample ID: 880-28380-12
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/16/23 16:07	05/17/23 21:22	1
Toluene	<0.00201	U *+ *- *1	0.00201		mg/Kg		05/16/23 16:07	05/17/23 21:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/16/23 16:07	05/17/23 21:22	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		05/16/23 16:07	05/17/23 21:22	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		05/16/23 16:07	05/17/23 21:22	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		05/16/23 16:07	05/17/23 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*221*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/17/23 21:22*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/16/23 16:07*	*05/17/23 21:22*	*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			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/17/23 12:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 16:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 16:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*05/16/23 08:19*	*05/16/23 16:14*	*1*
o-Terphenyl	*147*	*S1+*	*70 - 130*	*05/16/23 08:19*	*05/16/23 16:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5620**		100		mg/Kg			05/17/23 14:09	20

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (8'-9')

Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

Lab Sample ID: 880-28380-13

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201		mg/Kg		05/16/23 16:07	05/17/23 21:48	1
Toluene	<0.00201	U *+ *- *1	0.00201		mg/Kg		05/16/23 16:07	05/17/23 21:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/16/23 16:07	05/17/23 21:48	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		05/16/23 16:07	05/17/23 21:48	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		05/16/23 16:07	05/17/23 21:48	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		05/16/23 16:07	05/17/23 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*202*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/17/23 21:48*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*05/16/23 16:07*	*05/17/23 21:48*	*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			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/17/23 12:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 16:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 16:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*05/16/23 08:19*	*05/16/23 16:36*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*05/16/23 08:19*	*05/16/23 16:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4140**		101		mg/Kg			05/17/23 14:15	20

Client Sample ID: T-2 (9'-10')

Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

Lab Sample ID: 880-28380-14

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		05/16/23 16:07	05/17/23 22:13	1
Toluene	<0.00198	U *+ *- *1	0.00198		mg/Kg		05/16/23 16:07	05/17/23 22:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/16/23 16:07	05/17/23 22:13	1
m-Xylene & p-Xylene	<0.00396	U *+	0.00396		mg/Kg		05/16/23 16:07	05/17/23 22:13	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		05/16/23 16:07	05/17/23 22:13	1
Xylenes, Total	<0.00396	U *+	0.00396		mg/Kg		05/16/23 16:07	05/17/23 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*205*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/17/23 22:13*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*05/16/23 16:07*	*05/17/23 22:13*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (9'-10')

Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

Lab Sample ID: 880-28380-14

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/17/23 12:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 16:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 16:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*05/16/23 08:19*	*05/16/23 16:58*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*05/16/23 08:19*	*05/16/23 16:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1920**		50.2		mg/Kg			05/17/23 14:20	10

Client Sample ID: T-2 (10'-11')

Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

Lab Sample ID: 880-28380-15

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		05/16/23 16:07	05/17/23 22:39	1
Toluene	<0.00199	U *+ *- *1	0.00199		mg/Kg		05/16/23 16:07	05/17/23 22:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/16/23 16:07	05/17/23 22:39	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		05/16/23 16:07	05/17/23 22:39	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		05/16/23 16:07	05/17/23 22:39	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		05/16/23 16:07	05/17/23 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*211*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/17/23 22:39*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/16/23 16:07*	*05/17/23 22:39*	*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			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/17/23 12:07	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		05/16/23 08:19	05/16/23 17:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/16/23 08:19	05/16/23 17:20	1

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Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (10'-11')

Lab Sample ID: 880-28380-15
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/16/23 08:19	05/16/23 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*05/16/23 08:19*	*05/16/23 17:20*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*05/16/23 08:19*	*05/16/23 17:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1560**		49.8		mg/Kg			05/17/23 14:25	10

Client Sample ID: T-2 (11'-12')

Lab Sample ID: 880-28380-16
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/16/23 16:07	05/17/23 23:05	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		05/16/23 16:07	05/17/23 23:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/23 16:07	05/17/23 23:05	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		05/16/23 16:07	05/17/23 23:05	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		05/16/23 16:07	05/17/23 23:05	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		05/16/23 16:07	05/17/23 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*198*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/17/23 23:05*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/16/23 16:07*	*05/17/23 23:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/17/23 12:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 17:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 17:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*05/16/23 08:19*	*05/16/23 17:42*	*1*
o-Terphenyl	*127*		*70 - 130*	*05/16/23 08:19*	*05/16/23 17:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1170**		50.3		mg/Kg			05/17/23 14:31	10

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28380-17
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/16/23 16:07	05/17/23 23:31	1
Toluene	<0.00198	U *+ *- *1	0.00198		mg/Kg		05/16/23 16:07	05/17/23 23:31	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/16/23 16:07	05/17/23 23:31	1
m-Xylene & p-Xylene	<0.00397	U *+	0.00397		mg/Kg		05/16/23 16:07	05/17/23 23:31	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		05/16/23 16:07	05/17/23 23:31	1
Xylenes, Total	<0.00397	U *+	0.00397		mg/Kg		05/16/23 16:07	05/17/23 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*210*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/17/23 23:31*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/16/23 16:07*	*05/17/23 23:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**126**		49.9		mg/Kg			05/17/23 12:07	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	<49.9	U	49.9		mg/Kg		05/16/23 08:19	05/16/23 18:04	1
Diesel Range Organics (Over C10-C28)	**126**		49.9		mg/Kg		05/16/23 08:19	05/16/23 18:04	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 08:19	05/16/23 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*05/16/23 08:19*	*05/16/23 18:04*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*05/16/23 08:19*	*05/16/23 18:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7020**		101		mg/Kg			05/18/23 17:34	20

Client Sample ID: T-3 (1'-1.5')

Lab Sample ID: 880-28380-18
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/16/23 16:07	05/17/23 23:57	1
Toluene	<0.00201	U *+ *- *1	0.00201		mg/Kg		05/16/23 16:07	05/17/23 23:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/16/23 16:07	05/17/23 23:57	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		05/16/23 16:07	05/17/23 23:57	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		05/16/23 16:07	05/17/23 23:57	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		05/16/23 16:07	05/17/23 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*205*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/17/23 23:57*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*05/16/23 16:07*	*05/17/23 23:57*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (1'-1.5')

Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

Lab Sample ID: 880-28380-18
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/17/23 12:07	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		05/16/23 08:19	05/16/23 18:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/16/23 08:19	05/16/23 18:25	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/16/23 08:19	05/16/23 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*05/16/23 08:19*	*05/16/23 18:25*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*05/16/23 08:19*	*05/16/23 18:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2240**		50.2		mg/Kg			05/19/23 14:00	10

Client Sample ID: T-3 (1.5'-2')

Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

Lab Sample ID: 880-28380-19
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		05/16/23 16:07	05/18/23 00:22	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		05/16/23 16:07	05/18/23 00:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/23 16:07	05/18/23 00:22	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401		mg/Kg		05/16/23 16:07	05/18/23 00:22	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		05/16/23 16:07	05/18/23 00:22	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		05/16/23 16:07	05/18/23 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*195*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/18/23 00:22*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*05/16/23 16:07*	*05/18/23 00:22*	*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			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/17/23 12:07	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	<49.9	U	49.9		mg/Kg		05/16/23 08:19	05/16/23 18:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/23 08:19	05/16/23 18:46	1

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (1.5'-2')

Lab Sample ID: 880-28380-19
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 08:19	05/16/23 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*05/16/23 08:19*	*05/16/23 18:46*	*1*
o-Terphenyl	*141*	*S1+*	*70 - 130*	*05/16/23 08:19*	*05/16/23 18:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1820**		49.9		mg/Kg			05/19/23 14:05	10

Client Sample ID: T-3 (2'-3')

Lab Sample ID: 880-28380-20
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/16/23 16:07	05/18/23 00:48	1
Toluene	<0.00200	U *+ *- *1	0.00200		mg/Kg		05/16/23 16:07	05/18/23 00:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/23 16:07	05/18/23 00:48	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		05/16/23 16:07	05/18/23 00:48	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		05/16/23 16:07	05/18/23 00:48	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		05/16/23 16:07	05/18/23 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*219*	*S1+*	*70 - 130*	*05/16/23 16:07*	*05/18/23 00:48*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*05/16/23 16:07*	*05/18/23 00:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/18/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/17/23 12:07	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		05/16/23 08:19	05/16/23 19:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/16/23 08:19	05/16/23 19:08	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/16/23 08:19	05/16/23 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*05/16/23 08:19*	*05/16/23 19:08*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*05/16/23 08:19*	*05/16/23 19:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**678**		4.98		mg/Kg			05/18/23 18:10	1

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (3'-4)

Lab Sample ID: 880-28380-21
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/17/23 10:45	05/21/23 00:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/17/23 10:45	05/21/23 00:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/17/23 10:45	05/21/23 00:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/17/23 10:45	05/21/23 00:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/17/23 10:45	05/21/23 00:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/17/23 10:45	05/21/23 00:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*05/17/23 10:45*	*05/21/23 00:27*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/17/23 10:45*	*05/21/23 00:27*	*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			05/22/23 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/16/23 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/15/23 13:21	05/15/23 23:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/15/23 13:21	05/15/23 23:22	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/15/23 13:21	05/15/23 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/15/23 13:21*	*05/15/23 23:22*	*1*
o-Terphenyl	*129*		*70 - 130*	*05/15/23 13:21*	*05/15/23 23:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1060**		5.03		mg/Kg			05/18/23 18:15	1

Client Sample ID: T-3 (4'-5')

Lab Sample ID: 880-28380-22
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/17/23 10:45	05/21/23 00:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:45	05/21/23 00:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:45	05/21/23 00:47	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/17/23 10:45	05/21/23 00:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:45	05/21/23 00:47	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/17/23 10:45	05/21/23 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*05/17/23 10:45*	*05/21/23 00:47*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/17/23 10:45*	*05/21/23 00:47*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (4'-5')

Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

Lab Sample ID: 880-28380-22

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/22/23 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**115**		49.9		mg/Kg			05/16/23 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/15/23 13:21	05/15/23 23:43	1
Diesel Range Organics (Over C10-C28)	**115**		49.9		mg/Kg		05/15/23 13:21	05/15/23 23:43	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/15/23 13:21	05/15/23 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*05/15/23 13:21*	*05/15/23 23:43*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*05/15/23 13:21*	*05/15/23 23:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5470**		101		mg/Kg			05/18/23 18:20	20

Client Sample ID: T-3 (5'-6')

Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

Lab Sample ID: 880-28380-23

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199		mg/Kg		05/17/23 10:45	05/21/23 01:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:45	05/21/23 01:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:45	05/21/23 01:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/17/23 10:45	05/21/23 01:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:45	05/21/23 01:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/17/23 10:45	05/21/23 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/17/23 10:45*	*05/21/23 01:08*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/17/23 10:45*	*05/21/23 01:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/22/23 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/16/23 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/15/23 13:21	05/16/23 00:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/15/23 13:21	05/16/23 00:05	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (5'-6')

Lab Sample ID: 880-28380-23
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/15/23 13:21	05/16/23 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*05/15/23 13:21*	*05/16/23 00:05*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*05/15/23 13:21*	*05/16/23 00:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**490**		5.03		mg/Kg			05/18/23 18:26	1

Client Sample ID: T-3 (6'-7')

Lab Sample ID: 880-28380-24
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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		05/17/23 10:45	05/21/23 01:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:45	05/21/23 01:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:45	05/21/23 01:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/17/23 10:45	05/21/23 01:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:45	05/21/23 01:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/17/23 10:45	05/21/23 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*05/17/23 10:45*	*05/21/23 01:28*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/17/23 10:45*	*05/21/23 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			05/22/23 12:48	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			05/16/23 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/15/23 13:21	05/16/23 00:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/15/23 13:21	05/16/23 00:26	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/15/23 13:21	05/16/23 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*05/15/23 13:21*	*05/16/23 00:26*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*05/15/23 13:21*	*05/16/23 00:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95.7**		4.97		mg/Kg			05/18/23 18:31	1

Surrogate Summary

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-28380-1	T-1 (0-1')	174 S1+	73
880-28380-1 MS	T-1 (0-1')	189 S1+	94
880-28380-1 MSD	T-1 (0-1')	192 S1+	98
880-28380-2	T-1 (1'-1.5')	177 S1+	73
880-28380-3	T-1 (1.5'-2')	205 S1+	84
880-28380-4	T-2 (0-1')	193 S1+	78
880-28380-5	T-2 (1'-1.5')	205 S1+	81
880-28380-6	T-2 (1.5'-2')	195 S1+	78
880-28380-7	T-2 (2'-3')	190 S1+	94
880-28380-8	T-2 (3'-4')	200 S1+	93
880-28380-9	T-2 (4'-5')	203 S1+	86
880-28380-10	T-2 (5'-6')	202 S1+	79
880-28380-11	T-2 (6'-7')	179 S1+	78
880-28380-12	T-2 (7'-8")	221 S1+	84
880-28380-13	T-2 (8'-9')	202 S1+	77
880-28380-14	T-2 (9'-10')	205 S1+	78
880-28380-15	T-2 (10'-11')	211 S1+	83
880-28380-16	T-2 (11'-12')	198 S1+	91
880-28380-17	T-3 (0-1')	210 S1+	84
880-28380-18	T-3 (1'-1.5')	205 S1+	86
880-28380-19	T-3 (1.5'-2')	195 S1+	80
880-28380-20	T-3 (2'-3')	219 S1+	86
880-28380-21	T-3 (3'-4)	86	93
880-28380-22	T-3 (4'-5')	86	97
880-28380-23	T-3 (5'-6')	91	95
880-28380-24	T-3 (6'-7')	92	94
880-28403-A-1-G MS	Matrix Spike	96	118
880-28403-A-1-H MSD	Matrix Spike Duplicate	97	101
LCS 880-53508/1-A	Lab Control Sample	133 S1+	64 S1-
LCS 880-53575/1-A	Lab Control Sample	89	107
LCSD 880-53508/2-A	Lab Control Sample Dup	162 S1+	89
LCSD 880-53575/2-A	Lab Control Sample Dup	94	116
MB 880-53508/5-A	Method Blank	102	80
MB 880-53575/5-A	Method Blank	88	110
MB 880-53741/5-A	Method Blank	91	95

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-28380-1	T-1 (0-1')	111	137 S1+
880-28380-1 MS	T-1 (0-1')	107	122
880-28380-1 MSD	T-1 (0-1')	106	117
880-28380-2	T-1 (1'-1.5')	106	129

Surrogate Summary

Client: Carmona Resources Job ID: 880-28380-1
Project/Site: White City Penn 28 Gas Com (04.15.2019) SDG: Eddy County, New Mexico

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-28380-3	T-1 (1.5'-2')	119	137 S1+
880-28380-4	T-2 (0-1')	106	129
880-28380-5	T-2 (1'-1.5')	109	132 S1+
880-28380-6	T-2 (1.5'-2')	108	133 S1+
880-28380-7	T-2 (2'-3')	111	130
880-28380-8	T-2 (3'-4')	107	130
880-28380-9	T-2 (4'-5')	107	132 S1+
880-28380-10	T-2 (5'-6')	105	129
880-28380-11	T-2 (6'-7')	121	142 S1+
880-28380-12	T-2 (7'-8")	125	147 S1+
880-28380-13	T-2 (8'-9')	108	135 S1+
880-28380-14	T-2 (9'-10')	116	138 S1+
880-28380-15	T-2 (10'-11')	118	140 S1+
880-28380-16	T-2 (11'-12')	101	127
880-28380-17	T-3 (0-1')	109	132 S1+
880-28380-18	T-3 (1'-1.5')	110	136 S1+
880-28380-19	T-3 (1.5'-2')	112	141 S1+
880-28380-20	T-3 (2'-3')	111	136 S1+
880-28380-21	T-3 (3'-4)	105	129
880-28380-22	T-3 (4'-5')	108	131 S1+
880-28380-23	T-3 (5'-6')	107	132 S1+
880-28380-24	T-3 (6'-7')	123	145 S1+
890-4653-A-1-C MS	Matrix Spike	102	115
890-4653-A-1-D MSD	Matrix Spike Duplicate	102	113
LCS 880-53388/2-A	Lab Control Sample	105	127
LCS 880-53454/2-A	Lab Control Sample	96	113
LCSD 880-53388/3-A	Lab Control Sample Dup	99	131 S1+
LCSD 880-53454/3-A	Lab Control Sample Dup	99	125
MB 880-53388/1-A	Method Blank	145 S1+	188 S1+
MB 880-53454/1-A	Method Blank	152 S1+	195 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-53508/5-A
Matrix: Solid
Analysis Batch: 53588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 53508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/23 16:07	05/17/23 14:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/23 16:07	05/17/23 14:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/23 16:07	05/17/23 14:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/16/23 16:07	05/17/23 14:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/23 16:07	05/17/23 14:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/16/23 16:07	05/17/23 14:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*05/16/23 16:07*	*05/17/23 14:52*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*05/16/23 16:07*	*05/17/23 14:52*	*1*

Lab Sample ID: LCS 880-53508/1-A
Matrix: Solid
Analysis Batch: 53588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 53508

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1040		mg/Kg		104	70 - 130		
Toluene			0.100	0.1149		mg/Kg		115	70 - 130		
Ethylbenzene			0.100	0.1057		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.2384		mg/Kg		119	70 - 130		
o-Xylene			0.100	0.1089		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*64*	*S1-*	*70 - 130*

Lab Sample ID: LCSD 880-53508/2-A
Matrix: Solid
Analysis Batch: 53588

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 53508

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1329	*+	mg/Kg		133	70 - 130	24	35
Toluene			0.100	0.1470	*+	mg/Kg		147	70 - 130	24	35
Ethylbenzene			0.100	0.1299		mg/Kg		130	70 - 130	21	35
m-Xylene & p-Xylene			0.200	0.2952	*+	mg/Kg		148	70 - 130	21	35
o-Xylene			0.100	0.1344	*+	mg/Kg		134	70 - 130	21	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*162*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-28380-1 MS
Matrix: Solid
Analysis Batch: 53588

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 53508

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U *+ F1	0.0996	0.1506	F1	mg/Kg		151	70 - 130		

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QC Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28380-1 MS
Matrix: Solid
Analysis Batch: 53588

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 53508

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00200	U *+ F1 *-1	0.0996	0.1616	F1	mg/Kg		162	70 - 130
Ethylbenzene	<0.00200	U F1	0.0996	0.1442	F1	mg/Kg		145	70 - 130
m-Xylene & p-Xylene	<0.00401	U *+ F1	0.199	0.3277	F1	mg/Kg		165	70 - 130
o-Xylene	<0.00200	U *+ F1	0.0996	0.1520	F1	mg/Kg		153	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*189*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-28380-1 MSD
Matrix: Solid
Analysis Batch: 53588

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 53508

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U *+ F1	0.0990	0.1516	F1	mg/Kg		153	70 - 130	1	35
Toluene	<0.00200	U *+ F1 *-1	0.0990	0.1555	F1	mg/Kg		157	70 - 130	4	35
Ethylbenzene	<0.00200	U F1	0.0990	0.1411	F1	mg/Kg		142	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U *+ F1	0.198	0.3176	F1	mg/Kg		160	70 - 130	3	35
o-Xylene	<0.00200	U *+ F1	0.0990	0.1415	F1	mg/Kg		143	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*192*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 880-53575/5-A
Matrix: Solid
Analysis Batch: 53791

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 53575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:45	05/20/23 19:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:45	05/20/23 19:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:45	05/20/23 19:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/17/23 10:45	05/20/23 19:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:45	05/20/23 19:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/17/23 10:45	05/20/23 19:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*05/17/23 10:45*	*05/20/23 19:04*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*05/17/23 10:45*	*05/20/23 19:04*	*1*

Lab Sample ID: LCS 880-53575/1-A
Matrix: Solid
Analysis Batch: 53791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 53575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1303		mg/Kg		130	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-53575/1-A
Matrix: Solid
Analysis Batch: 53791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 53575

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Toluene			0.100	0.1118		mg/Kg		112	70 - 130		
Ethylbenzene			0.100	0.09809		mg/Kg		98	70 - 130		
m-Xylene & p-Xylene			0.200	0.1903		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.08702		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 880-53575/2-A
Matrix: Solid
Analysis Batch: 53791

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 53575

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1383	*+	mg/Kg		138	70 - 130	6	35
Toluene			0.100	0.1191		mg/Kg		119	70 - 130	6	35
Ethylbenzene			0.100	0.1042		mg/Kg		104	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.2069		mg/Kg		103	70 - 130	8	35
o-Xylene			0.100	0.09573		mg/Kg		96	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*

Lab Sample ID: 880-28403-A-1-G MS
Matrix: Solid
Analysis Batch: 53791

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 53575

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U *+ F1	0.0990	0.1239		mg/Kg		125	70 - 130		
Toluene	<0.00198	U	0.0990	0.1040		mg/Kg		105	70 - 130		
Ethylbenzene	<0.00198	U	0.0990	0.09380		mg/Kg		95	70 - 130		
m-Xylene & p-Xylene	<0.00396	U	0.198	0.1909		mg/Kg		96	70 - 130		
o-Xylene	<0.00198	U	0.0990	0.08821		mg/Kg		89	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*

Lab Sample ID: 880-28403-A-1-H MSD
Matrix: Solid
Analysis Batch: 53791

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 53575

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U *+ F1	0.100	0.1354	F1	mg/Kg		135	70 - 130	9	35
Toluene	<0.00198	U	0.100	0.1068		mg/Kg		107	70 - 130	3	35
Ethylbenzene	<0.00198	U	0.100	0.1025		mg/Kg		102	70 - 130	9	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2187		mg/Kg		109	70 - 130	14	35

QC Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28403-A-1-H MSD
Matrix: Solid
Analysis Batch: 53791

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 53575

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o-Xylene	<0.00198	U	0.100	0.1006		mg/Kg		100	70 - 130	13	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 880-53741/5-A
Matrix: Solid
Analysis Batch: 53791

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 53741

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/23 09:45	05/20/23 07:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/23 09:45	05/20/23 07:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/23 09:45	05/20/23 07:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/19/23 09:45	05/20/23 07:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/23 09:45	05/20/23 07:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/19/23 09:45	05/20/23 07:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/19/23 09:45*	*05/20/23 07:28*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/19/23 09:45*	*05/20/23 07:28*	*1*

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

Lab Sample ID: MB 880-53388/1-A
Matrix: Solid
Analysis Batch: 53326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 53388

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		05/15/23 13:21	05/15/23 14:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/15/23 13:21	05/15/23 14:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/15/23 13:21	05/15/23 14:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*145*	*S1+*	*70 - 130*	*05/15/23 13:21*	*05/15/23 14:57*	*1*
o-Terphenyl	*188*	*S1+*	*70 - 130*	*05/15/23 13:21*	*05/15/23 14:57*	*1*

Lab Sample ID: LCS 880-53388/2-A
Matrix: Solid
Analysis Batch: 53326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 53388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	936.7		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1036		mg/Kg		104	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-53388/2-A
Matrix: Solid
Analysis Batch: 53326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 53388

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	127		70 - 130

Lab Sample ID: LCSD 880-53388/3-A
Matrix: Solid
Analysis Batch: 53326

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 53388

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	840.6		mg/Kg		84	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	895.9		mg/Kg		90	70 - 130	15	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	131	S1+	70 - 130

Lab Sample ID: 890-4653-A-1-C MS
Matrix: Solid
Analysis Batch: 53326

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 53388

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	1171		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	999	932.9		mg/Kg		93	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 890-4653-A-1-D MSD
Matrix: Solid
Analysis Batch: 53326

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 53388

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	1174		mg/Kg		118	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	997	929.3		mg/Kg		93	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	113		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-53454/1-A
Matrix: Solid
Analysis Batch: 53450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 53454

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		05/16/23 08:19	05/16/23 08:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 08:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/23 08:19	05/16/23 08:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*152*	*S1+*	*70 - 130*	*05/16/23 08:19*	*05/16/23 08:33*	*1*
o-Terphenyl	*195*	*S1+*	*70 - 130*	*05/16/23 08:19*	*05/16/23 08:33*	*1*

Lab Sample ID: LCS 880-53454/2-A
Matrix: Solid
Analysis Batch: 53450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 53454

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1035		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	937.7		mg/Kg		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: LCSD 880-53454/3-A
Matrix: Solid
Analysis Batch: 53450

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 53454

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1093		mg/Kg		109	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	903.7		mg/Kg		90	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*125*		*70 - 130*

Lab Sample ID: 880-28380-1 MS
Matrix: Solid
Analysis Batch: 53450

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 53454

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	998	1244		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	982.3		mg/Kg		96	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28380-1 MS
Matrix: Solid
Analysis Batch: 53450

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 53454

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	122		70 - 130

Lab Sample ID: 880-28380-1 MSD
Matrix: Solid
Analysis Batch: 53450

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 53454

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	997	1254		mg/Kg		123	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	963.9		mg/Kg		94	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	117		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53363/1-A
Matrix: Solid
Analysis Batch: 53573

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/17/23 11:49	1

Lab Sample ID: LCS 880-53363/2-A
Matrix: Solid
Analysis Batch: 53573

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	237.4		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-53363/3-A
Matrix: Solid
Analysis Batch: 53573

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	237.3		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-28380-7 MS
Matrix: Solid
Analysis Batch: 53573

Client Sample ID: T-2 (2'-3')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2780		4990	8159		mg/Kg		108	90 - 110

QC Sample Results

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-28380-7 MSD — **Client Sample ID: T-2 (2'-3')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 53573

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2780		4990	8158		mg/Kg		108	90 - 110	0	20

Lab Sample ID: MB 880-53362/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 53584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/18/23 16:44	1

Lab Sample ID: LCS 880-53362/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 53584

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.6		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-53362/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 53584

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.4		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-28392-A-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 53584

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	186		250	418.3		mg/Kg		93	90 - 110

Lab Sample ID: 880-28392-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 53584

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	186		250	416.1		mg/Kg		92	90 - 110	1	20

Lab Sample ID: 880-28418-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 53584

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	110		249	332.9		mg/Kg		90	90 - 110

Lab Sample ID: 880-28418-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 53584

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	110		249	333.6		mg/Kg		90	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 53508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-1	T-1 (0-1')	Total/NA	Solid	5035	
880-28380-2	T-1 (1'-1.5')	Total/NA	Solid	5035	
880-28380-3	T-1 (1.5'-2')	Total/NA	Solid	5035	
880-28380-4	T-2 (0-1')	Total/NA	Solid	5035	
880-28380-5	T-2 (1'-1.5')	Total/NA	Solid	5035	
880-28380-6	T-2 (1.5'-2')	Total/NA	Solid	5035	
880-28380-7	T-2 (2'-3')	Total/NA	Solid	5035	
880-28380-8	T-2 (3'-4')	Total/NA	Solid	5035	
880-28380-9	T-2 (4'-5')	Total/NA	Solid	5035	
880-28380-10	T-2 (5'-6')	Total/NA	Solid	5035	
880-28380-11	T-2 (6'-7')	Total/NA	Solid	5035	
880-28380-12	T-2 (7'-8")	Total/NA	Solid	5035	
880-28380-13	T-2 (8'-9')	Total/NA	Solid	5035	
880-28380-14	T-2 (9'-10')	Total/NA	Solid	5035	
880-28380-15	T-2 (10'-11')	Total/NA	Solid	5035	
880-28380-16	T-2 (11'-12')	Total/NA	Solid	5035	
880-28380-17	T-3 (0-1')	Total/NA	Solid	5035	
880-28380-18	T-3 (1'-1.5')	Total/NA	Solid	5035	
880-28380-19	T-3 (1.5'-2')	Total/NA	Solid	5035	
880-28380-20	T-3 (2'-3')	Total/NA	Solid	5035	
MB 880-53508/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53508/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53508/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-28380-1 MS	T-1 (0-1')	Total/NA	Solid	5035	
880-28380-1 MSD	T-1 (0-1')	Total/NA	Solid	5035	

Prep Batch: 53575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-21	T-3 (3'-4)	Total/NA	Solid	5035	
880-28380-22	T-3 (4'-5')	Total/NA	Solid	5035	
880-28380-23	T-3 (5'-6')	Total/NA	Solid	5035	
880-28380-24	T-3 (6'-7')	Total/NA	Solid	5035	
MB 880-53575/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53575/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53575/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-28403-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
880-28403-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 53588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-1	T-1 (0-1')	Total/NA	Solid	8021B	53508
880-28380-2	T-1 (1'-1.5')	Total/NA	Solid	8021B	53508
880-28380-3	T-1 (1.5'-2')	Total/NA	Solid	8021B	53508
880-28380-4	T-2 (0-1')	Total/NA	Solid	8021B	53508
880-28380-5	T-2 (1'-1.5')	Total/NA	Solid	8021B	53508
880-28380-6	T-2 (1.5'-2')	Total/NA	Solid	8021B	53508
880-28380-7	T-2 (2'-3')	Total/NA	Solid	8021B	53508
880-28380-8	T-2 (3'-4')	Total/NA	Solid	8021B	53508
880-28380-9	T-2 (4'-5')	Total/NA	Solid	8021B	53508
880-28380-10	T-2 (5'-6')	Total/NA	Solid	8021B	53508
880-28380-11	T-2 (6'-7')	Total/NA	Solid	8021B	53508

QC Association Summary

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 53588 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-12	T-2 (7'-8")	Total/NA	Solid	8021B	53508
880-28380-13	T-2 (8'-9')	Total/NA	Solid	8021B	53508
880-28380-14	T-2 (9'-10')	Total/NA	Solid	8021B	53508
880-28380-15	T-2 (10'-11')	Total/NA	Solid	8021B	53508
880-28380-16	T-2 (11'-12')	Total/NA	Solid	8021B	53508
880-28380-17	T-3 (0-1')	Total/NA	Solid	8021B	53508
880-28380-18	T-3 (1'-1.5')	Total/NA	Solid	8021B	53508
880-28380-19	T-3 (1.5'-2')	Total/NA	Solid	8021B	53508
880-28380-20	T-3 (2'-3')	Total/NA	Solid	8021B	53508
MB 880-53508/5-A	Method Blank	Total/NA	Solid	8021B	53508
LCS 880-53508/1-A	Lab Control Sample	Total/NA	Solid	8021B	53508
LCSD 880-53508/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53508
880-28380-1 MS	T-1 (0-1')	Total/NA	Solid	8021B	53508
880-28380-1 MSD	T-1 (0-1')	Total/NA	Solid	8021B	53508

Analysis Batch: 53694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-1	T-1 (0-1')	Total/NA	Solid	Total BTEX	
880-28380-2	T-1 (1'-1.5')	Total/NA	Solid	Total BTEX	
880-28380-3	T-1 (1.5'-2')	Total/NA	Solid	Total BTEX	
880-28380-4	T-2 (0-1')	Total/NA	Solid	Total BTEX	
880-28380-5	T-2 (1'-1.5')	Total/NA	Solid	Total BTEX	
880-28380-6	T-2 (1.5'-2')	Total/NA	Solid	Total BTEX	
880-28380-7	T-2 (2'-3')	Total/NA	Solid	Total BTEX	
880-28380-8	T-2 (3'-4')	Total/NA	Solid	Total BTEX	
880-28380-9	T-2 (4'-5')	Total/NA	Solid	Total BTEX	
880-28380-10	T-2 (5'-6')	Total/NA	Solid	Total BTEX	
880-28380-11	T-2 (6'-7')	Total/NA	Solid	Total BTEX	
880-28380-12	T-2 (7'-8")	Total/NA	Solid	Total BTEX	
880-28380-13	T-2 (8'-9')	Total/NA	Solid	Total BTEX	
880-28380-14	T-2 (9'-10')	Total/NA	Solid	Total BTEX	
880-28380-15	T-2 (10'-11')	Total/NA	Solid	Total BTEX	
880-28380-16	T-2 (11'-12')	Total/NA	Solid	Total BTEX	
880-28380-17	T-3 (0-1')	Total/NA	Solid	Total BTEX	
880-28380-18	T-3 (1'-1.5')	Total/NA	Solid	Total BTEX	
880-28380-19	T-3 (1.5'-2')	Total/NA	Solid	Total BTEX	
880-28380-20	T-3 (2'-3')	Total/NA	Solid	Total BTEX	
880-28380-21	T-3 (3'-4)	Total/NA	Solid	Total BTEX	
880-28380-22	T-3 (4'-5')	Total/NA	Solid	Total BTEX	
880-28380-23	T-3 (5'-6')	Total/NA	Solid	Total BTEX	
880-28380-24	T-3 (6'-7')	Total/NA	Solid	Total BTEX	

Prep Batch: 53741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-53741/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 53791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-21	T-3 (3'-4)	Total/NA	Solid	8021B	53575
880-28380-22	T-3 (4'-5')	Total/NA	Solid	8021B	53575
880-28380-23	T-3 (5'-6')	Total/NA	Solid	8021B	53575

QC Association Summary

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 53791 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-24	T-3 (6'-7')	Total/NA	Solid	8021B	53575
MB 880-53575/5-A	Method Blank	Total/NA	Solid	8021B	53575
MB 880-53741/5-A	Method Blank	Total/NA	Solid	8021B	53741
LCS 880-53575/1-A	Lab Control Sample	Total/NA	Solid	8021B	53575
LCSD 880-53575/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53575
880-28403-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	53575
880-28403-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	53575

GC Semi VOA

Analysis Batch: 53326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-21	T-3 (3'-4)	Total/NA	Solid	8015B NM	53388
880-28380-22	T-3 (4'-5')	Total/NA	Solid	8015B NM	53388
880-28380-23	T-3 (5'-6')	Total/NA	Solid	8015B NM	53388
880-28380-24	T-3 (6'-7')	Total/NA	Solid	8015B NM	53388
MB 880-53388/1-A	Method Blank	Total/NA	Solid	8015B NM	53388
LCS 880-53388/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53388
LCSD 880-53388/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53388
890-4653-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	53388
890-4653-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	53388

Prep Batch: 53388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-21	T-3 (3'-4)	Total/NA	Solid	8015NM Prep	
880-28380-22	T-3 (4'-5')	Total/NA	Solid	8015NM Prep	
880-28380-23	T-3 (5'-6')	Total/NA	Solid	8015NM Prep	
880-28380-24	T-3 (6'-7')	Total/NA	Solid	8015NM Prep	
MB 880-53388/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53388/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53388/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4653-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4653-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-1	T-1 (0-1')	Total/NA	Solid	8015B NM	53454
880-28380-2	T-1 (1'-1.5')	Total/NA	Solid	8015B NM	53454
880-28380-3	T-1 (1.5'-2')	Total/NA	Solid	8015B NM	53454
880-28380-4	T-2 (0-1')	Total/NA	Solid	8015B NM	53454
880-28380-5	T-2 (1'-1.5')	Total/NA	Solid	8015B NM	53454
880-28380-6	T-2 (1.5'-2')	Total/NA	Solid	8015B NM	53454
880-28380-7	T-2 (2'-3')	Total/NA	Solid	8015B NM	53454
880-28380-8	T-2 (3'-4')	Total/NA	Solid	8015B NM	53454
880-28380-9	T-2 (4'-5')	Total/NA	Solid	8015B NM	53454
880-28380-10	T-2 (5'-6')	Total/NA	Solid	8015B NM	53454
880-28380-11	T-2 (6'-7')	Total/NA	Solid	8015B NM	53454
880-28380-12	T-2 (7'-8")	Total/NA	Solid	8015B NM	53454
880-28380-13	T-2 (8'-9')	Total/NA	Solid	8015B NM	53454
880-28380-14	T-2 (9'-10')	Total/NA	Solid	8015B NM	53454
880-28380-15	T-2 (10'-11')	Total/NA	Solid	8015B NM	53454

QC Association Summary

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 53450 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-16	T-2 (11'-12')	Total/NA	Solid	8015B NM	53454
880-28380-17	T-3 (0-1')	Total/NA	Solid	8015B NM	53454
880-28380-18	T-3 (1'-1.5')	Total/NA	Solid	8015B NM	53454
880-28380-19	T-3 (1.5'-2')	Total/NA	Solid	8015B NM	53454
880-28380-20	T-3 (2'-3')	Total/NA	Solid	8015B NM	53454
MB 880-53454/1-A	Method Blank	Total/NA	Solid	8015B NM	53454
LCS 880-53454/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53454
LCSD 880-53454/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53454
880-28380-1 MS	T-1 (0-1')	Total/NA	Solid	8015B NM	53454
880-28380-1 MSD	T-1 (0-1')	Total/NA	Solid	8015B NM	53454

Prep Batch: 53454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-1	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-28380-2	T-1 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-28380-3	T-1 (1.5'-2')	Total/NA	Solid	8015NM Prep	
880-28380-4	T-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-28380-5	T-2 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-28380-6	T-2 (1.5'-2')	Total/NA	Solid	8015NM Prep	
880-28380-7	T-2 (2'-3')	Total/NA	Solid	8015NM Prep	
880-28380-8	T-2 (3'-4')	Total/NA	Solid	8015NM Prep	
880-28380-9	T-2 (4'-5')	Total/NA	Solid	8015NM Prep	
880-28380-10	T-2 (5'-6')	Total/NA	Solid	8015NM Prep	
880-28380-11	T-2 (6'-7')	Total/NA	Solid	8015NM Prep	
880-28380-12	T-2 (7'-8")	Total/NA	Solid	8015NM Prep	
880-28380-13	T-2 (8'-9')	Total/NA	Solid	8015NM Prep	
880-28380-14	T-2 (9'-10')	Total/NA	Solid	8015NM Prep	
880-28380-15	T-2 (10'-11')	Total/NA	Solid	8015NM Prep	
880-28380-16	T-2 (11'-12')	Total/NA	Solid	8015NM Prep	
880-28380-17	T-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-28380-18	T-3 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-28380-19	T-3 (1.5'-2')	Total/NA	Solid	8015NM Prep	
880-28380-20	T-3 (2'-3')	Total/NA	Solid	8015NM Prep	
MB 880-53454/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53454/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53454/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28380-1 MS	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-28380-1 MSD	T-1 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-1	T-1 (0-1')	Total/NA	Solid	8015 NM	
880-28380-2	T-1 (1'-1.5')	Total/NA	Solid	8015 NM	
880-28380-3	T-1 (1.5'-2')	Total/NA	Solid	8015 NM	
880-28380-4	T-2 (0-1')	Total/NA	Solid	8015 NM	
880-28380-5	T-2 (1'-1.5')	Total/NA	Solid	8015 NM	
880-28380-6	T-2 (1.5'-2')	Total/NA	Solid	8015 NM	
880-28380-7	T-2 (2'-3')	Total/NA	Solid	8015 NM	
880-28380-8	T-2 (3'-4')	Total/NA	Solid	8015 NM	
880-28380-9	T-2 (4'-5')	Total/NA	Solid	8015 NM	
880-28380-10	T-2 (5'-6')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 53482 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-11	T-2 (6'-7')	Total/NA	Solid	8015 NM	
880-28380-12	T-2 (7'-8")	Total/NA	Solid	8015 NM	
880-28380-13	T-2 (8'-9')	Total/NA	Solid	8015 NM	
880-28380-14	T-2 (9'-10')	Total/NA	Solid	8015 NM	
880-28380-15	T-2 (10'-11')	Total/NA	Solid	8015 NM	
880-28380-16	T-2 (11'-12')	Total/NA	Solid	8015 NM	
880-28380-17	T-3 (0-1')	Total/NA	Solid	8015 NM	
880-28380-18	T-3 (1'-1.5')	Total/NA	Solid	8015 NM	
880-28380-19	T-3 (1.5'-2')	Total/NA	Solid	8015 NM	
880-28380-20	T-3 (2'-3')	Total/NA	Solid	8015 NM	
880-28380-21	T-3 (3'-4)	Total/NA	Solid	8015 NM	
880-28380-22	T-3 (4'-5')	Total/NA	Solid	8015 NM	
880-28380-23	T-3 (5'-6')	Total/NA	Solid	8015 NM	
880-28380-24	T-3 (6'-7')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 53362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-17	T-3 (0-1')	Soluble	Solid	DI Leach	
880-28380-18	T-3 (1'-1.5')	Soluble	Solid	DI Leach	
880-28380-19	T-3 (1.5'-2')	Soluble	Solid	DI Leach	
880-28380-20	T-3 (2'-3')	Soluble	Solid	DI Leach	
880-28380-21	T-3 (3'-4)	Soluble	Solid	DI Leach	
880-28380-22	T-3 (4'-5')	Soluble	Solid	DI Leach	
880-28380-23	T-3 (5'-6')	Soluble	Solid	DI Leach	
880-28380-24	T-3 (6'-7')	Soluble	Solid	DI Leach	
MB 880-53362/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53362/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53362/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28392-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-28392-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-28418-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-28418-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 53363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-1	T-1 (0-1')	Soluble	Solid	DI Leach	
880-28380-2	T-1 (1'-1.5')	Soluble	Solid	DI Leach	
880-28380-3	T-1 (1.5'-2')	Soluble	Solid	DI Leach	
880-28380-4	T-2 (0-1')	Soluble	Solid	DI Leach	
880-28380-5	T-2 (1'-1.5')	Soluble	Solid	DI Leach	
880-28380-6	T-2 (1.5'-2')	Soluble	Solid	DI Leach	
880-28380-7	T-2 (2'-3')	Soluble	Solid	DI Leach	
880-28380-8	T-2 (3'-4')	Soluble	Solid	DI Leach	
880-28380-9	T-2 (4'-5')	Soluble	Solid	DI Leach	
880-28380-10	T-2 (5'-6')	Soluble	Solid	DI Leach	
880-28380-11	T-2 (6'-7')	Soluble	Solid	DI Leach	
880-28380-12	T-2 (7'-8")	Soluble	Solid	DI Leach	
880-28380-13	T-2 (8'-9')	Soluble	Solid	DI Leach	
880-28380-14	T-2 (9'-10')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 53363 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-15	T-2 (10'-11')	Soluble	Solid	DI Leach	
880-28380-16	T-2 (11'-12')	Soluble	Solid	DI Leach	
MB 880-53363/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53363/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53363/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28380-7 MS	T-2 (2'-3')	Soluble	Solid	DI Leach	
880-28380-7 MSD	T-2 (2'-3')	Soluble	Solid	DI Leach	

Analysis Batch: 53573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-1	T-1 (0-1')	Soluble	Solid	300.0	53363
880-28380-2	T-1 (1'-1.5')	Soluble	Solid	300.0	53363
880-28380-3	T-1 (1.5'-2')	Soluble	Solid	300.0	53363
880-28380-4	T-2 (0-1')	Soluble	Solid	300.0	53363
880-28380-5	T-2 (1'-1.5')	Soluble	Solid	300.0	53363
880-28380-6	T-2 (1.5'-2')	Soluble	Solid	300.0	53363
880-28380-7	T-2 (2'-3')	Soluble	Solid	300.0	53363
880-28380-8	T-2 (3'-4')	Soluble	Solid	300.0	53363
880-28380-9	T-2 (4'-5')	Soluble	Solid	300.0	53363
880-28380-10	T-2 (5'-6')	Soluble	Solid	300.0	53363
880-28380-11	T-2 (6'-7')	Soluble	Solid	300.0	53363
880-28380-12	T-2 (7'-8")	Soluble	Solid	300.0	53363
880-28380-13	T-2 (8'-9')	Soluble	Solid	300.0	53363
880-28380-14	T-2 (9'-10')	Soluble	Solid	300.0	53363
880-28380-15	T-2 (10'-11')	Soluble	Solid	300.0	53363
880-28380-16	T-2 (11'-12')	Soluble	Solid	300.0	53363
MB 880-53363/1-A	Method Blank	Soluble	Solid	300.0	53363
LCS 880-53363/2-A	Lab Control Sample	Soluble	Solid	300.0	53363
LCSD 880-53363/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53363
880-28380-7 MS	T-2 (2'-3')	Soluble	Solid	300.0	53363
880-28380-7 MSD	T-2 (2'-3')	Soluble	Solid	300.0	53363

Analysis Batch: 53584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28380-17	T-3 (0-1')	Soluble	Solid	300.0	53362
880-28380-18	T-3 (1'-1.5')	Soluble	Solid	300.0	53362
880-28380-19	T-3 (1.5'-2')	Soluble	Solid	300.0	53362
880-28380-20	T-3 (2'-3')	Soluble	Solid	300.0	53362
880-28380-21	T-3 (3'-4)	Soluble	Solid	300.0	53362
880-28380-22	T-3 (4'-5')	Soluble	Solid	300.0	53362
880-28380-23	T-3 (5'-6')	Soluble	Solid	300.0	53362
880-28380-24	T-3 (6'-7')	Soluble	Solid	300.0	53362
MB 880-53362/1-A	Method Blank	Soluble	Solid	300.0	53362
LCS 880-53362/2-A	Lab Control Sample	Soluble	Solid	300.0	53362
LCSD 880-53362/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53362
880-28392-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	53362
880-28392-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	53362
880-28418-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	53362
880-28418-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	53362

Lab Chronicle

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28380-1
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/17/23 15:20	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 11:11	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	53573	05/17/23 12:38	CH	EET MID

Client Sample ID: T-1 (1'-1.5')

Lab Sample ID: 880-28380-2
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/17/23 15:46	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 12:16	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	53573	05/17/23 12:54	CH	EET MID

Client Sample ID: T-1 (1.5'-2')

Lab Sample ID: 880-28380-3
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/17/23 16:11	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 12:38	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53573	05/17/23 13:00	CH	EET MID

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

Lab Sample ID: 880-28380-4
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/17/23 16:37	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28380-4
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 12:59	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	53573	05/17/23 13:05	CH	EET MID

Client Sample ID: T-2 (1'-1.5')

Lab Sample ID: 880-28380-5
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/17/23 17:03	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 13:21	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	53573	05/17/23 13:10	CH	EET MID

Client Sample ID: T-2 (1.5'-2')

Lab Sample ID: 880-28380-6
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/17/23 17:29	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 13:42	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	53573	05/17/23 13:16	CH	EET MID

Client Sample ID: T-2 (2'-3')

Lab Sample ID: 880-28380-7
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/17/23 17:54	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 14:04	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (2'-3')

Lab Sample ID: 880-28380-7
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	53573	05/17/23 13:21	CH	EET MID

Client Sample ID: T-2 (3'-4')

Lab Sample ID: 880-28380-8
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/17/23 18:21	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 14:26	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	53573	05/17/23 13:37	CH	EET MID

Client Sample ID: T-2 (4'-5')

Lab Sample ID: 880-28380-9
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/17/23 18:47	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 14:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	53573	05/17/23 13:42	CH	EET MID

Client Sample ID: T-2 (5'-6')

Lab Sample ID: 880-28380-10
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/17/23 19:13	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 15:09	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	53573	05/17/23 13:59	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (6'-7')

Lab Sample ID: 880-28380-11
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/17/23 20:56	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 15:53	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	53573	05/17/23 14:04	CH	EET MID

Client Sample ID: T-2 (7'-8")

Lab Sample ID: 880-28380-12
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/17/23 21:22	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 16:14	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	53573	05/17/23 14:09	CH	EET MID

Client Sample ID: T-2 (8'-9')

Lab Sample ID: 880-28380-13
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/17/23 21:48	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 16:36	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	53573	05/17/23 14:15	CH	EET MID

Client Sample ID: T-2 (9'-10')

Lab Sample ID: 880-28380-14
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/17/23 22:13	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (9'-10')

Lab Sample ID: 880-28380-14
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 16:58	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	53573	05/17/23 14:20	CH	EET MID

Client Sample ID: T-2 (10'-11')

Lab Sample ID: 880-28380-15
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/17/23 22:39	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 17:20	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	53573	05/17/23 14:25	CH	EET MID

Client Sample ID: T-2 (11'-12')

Lab Sample ID: 880-28380-16
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/17/23 23:05	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 17:42	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53363	05/15/23 11:45	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	53573	05/17/23 14:31	CH	EET MID

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

Lab Sample ID: 880-28380-17
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/17/23 23:31	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 18:04	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28380-17

Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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			4.97 g	50 mL	53362	05/17/23 11:43	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	53584	05/18/23 17:34	CH	EET MID

Client Sample ID: T-3 (1'-1.5')

Lab Sample ID: 880-28380-18

Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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			4.97 g	5 mL	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/17/23 23:57	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 18:25	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53362	05/17/23 11:43	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	53584	05/19/23 14:00	CH	EET MID

Client Sample ID: T-3 (1.5'-2')

Lab Sample ID: 880-28380-19

Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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			4.99 g	5 mL	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/18/23 00:22	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 18:46	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	53362	05/17/23 11:43	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	53584	05/19/23 14:05	CH	EET MID

Client Sample ID: T-3 (2'-3')

Lab Sample ID: 880-28380-20

Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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			5.01 g	5 mL	53508	05/16/23 16:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53588	05/18/23 00:48	EL	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/18/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/17/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53454	05/16/23 08:19	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53450	05/16/23 19:08	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53362	05/17/23 11:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53584	05/18/23 18:10	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (3'-4)

Lab Sample ID: 880-28380-21
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53575	05/17/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53791	05/21/23 00:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/22/23 12:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/16/23 12:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53388	05/15/23 13:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53326	05/15/23 23:22	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53362	05/17/23 11:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53584	05/18/23 18:15	CH	EET MID

Client Sample ID: T-3 (4'-5')

Lab Sample ID: 880-28380-22
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53575	05/17/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53791	05/21/23 00:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/22/23 12:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/16/23 12:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53388	05/15/23 13:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53326	05/15/23 23:43	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53362	05/17/23 11:43	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	53584	05/18/23 18:20	CH	EET MID

Client Sample ID: T-3 (5'-6')

Lab Sample ID: 880-28380-23
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53575	05/17/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53791	05/21/23 01:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/22/23 12:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			53482	05/16/23 12:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53388	05/15/23 13:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53326	05/16/23 00:05	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53362	05/17/23 11:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53584	05/18/23 18:26	CH	EET MID

Client Sample ID: T-3 (6'-7')

Lab Sample ID: 880-28380-24
Matrix: Solid
Date Collected: 05/11/23 00:00
Date Received: 05/12/23 14:48

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	53575	05/17/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53791	05/21/23 01:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53694	05/22/23 12:48	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Job ID: 880-28380-1
Project/Site: White City Penn 28 Gas Com (04.15.2019)
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (6'-7')
Lab Sample ID: 880-28380-24

Date Collected: 05/11/23 00:00
Matrix: Solid
Date Received: 05/12/23 14:48

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			53482	05/16/23 12:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53388	05/15/23 13:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53326	05/16/23 00:26	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53362	05/17/23 11:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53584	05/18/23 18:31	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
Job ID: 880-28380-1
Project/Site: White City Penn 28 Gas Com (04.15.2019)
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
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: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: White City Penn 28 Gas Com (04.15.2019)

Job ID: 880-28380-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28380-1	T-1 (0-1')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-2	T-1 (1'-1.5')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-3	T-1 (1.5'-2')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-4	T-2 (0-1')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-5	T-2 (1'-1.5')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-6	T-2 (1.5'-2')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-7	T-2 (2'-3')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-8	T-2 (3'-4')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-9	T-2 (4'-5')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-10	T-2 (5'-6')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-11	T-2 (6'-7')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-12	T-2 (7'-8")	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-13	T-2 (8'-9')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-14	T-2 (9'-10')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-15	T-2 (10'-11')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-16	T-2 (11'-12')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-17	T-3 (0-1')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-18	T-3 (1'-1.5')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-19	T-3 (1.5'-2')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-20	T-3 (2'-3')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-21	T-3 (3'-4)	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-22	T-3 (4'-5')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-23	T-3 (5'-6')	Solid	05/11/23 00:00	05/12/23 14:48
880-28380-24	T-3 (6'-7')	Solid	05/11/23 00:00	05/12/23 14:48

Work Order No: 28380

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 ☐ rownfields ☐ RC ☐ perfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name:	White City Penn 28 Gas Com (04 15 2019)	Turn Around	
Project Number	2018	☑ Routine ☐ Rush	
Project Location	Eddy County, New Mexico	Due Date	Normal
Sampler's Name	GPJ		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID	IR6
Cooler Custody Seals.	Yes No (N/A)	Correction Factor	-.30
Sample Custody Seals	Yes No (N/A)	Temperature Reading	-1.3
Total Containers.		Corrected Temperature:	-1.0

Preservative Codes

None. NO DI Water H_2O

Cool Cool MeOH Me

HCL. HC HNO_3 HN

H_2S0_4. H_2 NaOH Na

H_3PO_4. HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Hold	Sample Comments
T-1 (0-1')	5/11/2023		X		G	1		X	X	X		402
T-1 (1'-1 5')	5/11/2023		X		G	1		X	X	X		
T-1 (1 5'- 2')	5/11/2023		X		G	1		X	X	X		
T-2 (0-1')	5/11/2023		X		G	1		X	X	X		
T-2 (1'-1.5')	5/11/2023		X		G	1		X	X	X		
T-2 (1 5'- 2')	5/11/2023		X		G	1		X	X	X		
T-2 (2'-3')	5/11/2023		X		G	1		X	X	X		
T-2 (3'-4')	5/11/2023		X		G	1		X	X	X		
T-2 (4'-5')	5/11/2023		X		G	1		X	X	X		
T-2 (5'-6')	5/11/2023		X		G	1		X	X	X		

880-28380 Chain of Custody

Comments:

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Chance Wiles	5-12-23 1448		

5/22/2023

Work Order No: 28380

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 ☐ rownfields ☐ RC ☐ perfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	White City Penn 28 Gas Com (04 15 2019)	Turn Around	
Project Number	2018	☑ Routine ☐ Rush	
Project Location	Eddy County, New Mexico	Due Date	Normal
Sampler's Name	GPJ		
PO #:			

SAMPLE RECEIPT			
Temp Blank.	Yes No	Wet Ice	Yes No
Received Intact:	Yes No	Thermometer ID	
Cooler Custody Seals.	Yes No N/A	Correction Factor	
Sample Custody Seals	Yes No N/A	Temperature Reading	
Total Containers		Corrected Temperature	

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL. HC HNO_3 HN

H_2S0_4. H_2 NaOH Na

H_3PO_4 HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Hold	Sample Comments
T-2 (6'-7')	5/11/2023		X		G	1			X	X	X		
T-2 (7'-8')	5/11/2023		X		G	1			X	X	X		
T-2 (8'-9')	5/11/2023		X		G	1			X	X	X		
T-2 (9'-10')	5/11/2023		X		G	1			X	X	X		
T-2 (10'-11')	5/11/2023		X		G	1			X	X	X		
T-2 (11'-12')	5/11/2023		X		G	1			X	X	X		
T-3 (0-1')	5/11/2023		X		G	1			X	X	X		
T-3 (1'-1 5')	5/11/2023		X		G	1			X	X	X		
T-3 (1 5'- 2')	5/11/2023		X		G	1			X	X	X		
T-3 (2'-3')	5/11/2023		X		G	1			X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Carmona Thielke	5-12-23 1448		

Work Order No: 28380

Page 3 of 3

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 ☐ RC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name:	White City Penn 28 Gas Com (04 15 2019)	Turn Around	
Project Number	2018	☑ Routine ☐ Rush	
Project Location	Eddy County, New Mexico	Due Date	Normal
Sampler's Name:	GPJ		
PO #:			

SAMPLE RECEIPT				
Temp Blank.	Yes No	Wet Ice:	Yes No	
Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals.	Yes No N/A	Correction Factor		
Sample Custody Seals	Yes No N/A	Temperature Reading		
Total Containers.		Corrected Temperature.		

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Hold
T-3 (3'-4')	5/11/2023		X		G	1		X	X	X	
T-3 (4'-5')	5/11/2023		X		G	1		X	X	X	
T-3 (5'-6')	5/11/2023		X		G	1		X	X	X	
T-3 (6'-7')	5/11/2023		X		G	1		X	X	X	

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL. HC HNO_3 HN

H_2SO_4 H_2 NaOH Na

H_3PO_4 HP

$NaHSO_4$. NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Comments

Loc: 880
28380

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Carmona Thomas	5-12-23 1448		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-28380-1
SDG Number: Eddy County, New Mexico

Login Number: 28380
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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QUESTIONS

Action 326597

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 326597
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1912653924**
Incident Name	**NAB1912653924 WHITE CITY PENN A 28 GAS COM UNIT 3 #004 @ 30-015-33862**
Incident Type	**Release Other**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-015-33862] White City Penn A 28 Gas Com Unit 3 #004**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	WHITE CITY PENN A 28 GAS COM UNIT 3 #004
Date Release Discovered	04/12/2019
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	*Not answered.*
Condensate Released (bbls) Details	Cause: Corrosion | Tank (Any) | Condensate | Released: 38 BBL | Recovered: 0 BBL | Lost: 38 BBL.
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 326597
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**
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: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 03/26/2024

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QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 326597
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	10600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1650
GRO+DRO (EPA SW-846 Method 8015M)	1430
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	03/13/2024
On what date will (or did) the final sampling or liner inspection occur	03/22/2024
On what date will (or was) the remediation complete(d)	03/22/2024
What is the estimated surface area (in square feet) that will be reclaimed	2000
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	2000
What is the estimated volume (in cubic yards) that will be remediated	800
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 326597
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	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.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 03/26/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 326597
	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 (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 326597
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**325209**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**03/22/2024**
What was the (estimated) number of samples that were to be gathered	**2**
What was the sampling surface area in square feet	**2000**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2000
What was the total volume (cubic yards) remediated	800
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)	Excavated the contaminated material onsite and have lab confirmed floor and sidewall composite samples of the entire area. Will reclaim during P/A.

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

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

I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 03/26/2024

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QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 326597
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 326597

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 326597
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	4/26/2024