

#### SITE INFORMATION

Closure Report
MARKHAM #001 (06.09.2005)
Incident #: NCLB0523732298
Eddy County, New Mexico
Unit C Sec 22 T23S R28E
32.2971802°, -104.0764694°

Crude Oil & Produced Water Release
Point of Release: Truck driver failed to notice the tank was spilling over during off-loading activities.

Release Date: 06.09.2005

Volume Released: 3 Barrels of Crude Oil & 70 Barrels of Produced Water Volume Recovered: 2 Barrels of Crude Oil & 68 Barrels of Produced Water

## CARMONA RESOURCES



Prepared for: Chevron U.S.A., Inc. 6301 Deauville Blvd Midland, Texas 79706

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



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November 1, 2024

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

**Re:** Closure Report

Markham #001 (06.09.2005) Incident ID: NCLB0523732298 Chevron U.S.A., Inc.

Site Location: Unit C, S22, T23S, R28E (Lat 32.2971802°, Long -104.0764694°)

**Eddy County, New Mexico** 

Mr. Bratcher:

On behalf of Chevron U.S.A., Inc. (Chevron), Carmona Resources, LLC has prepared this letter to document the Markham #001 site assessment and remediation activities. The site is located at 32.2971802°, -104.0764694° within Unit C, S22, T23S, R28E, in Eddy County, New Mexico (Figures 1A and Figure 2).

#### 1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on June 9, 2005, caused by trucker failing to notice a tank was spilling over during off-loading activities. According to the initial C-141, the release resulted in approximately seventy (70) barrels of produced water and three (3) barrels of crude oil being released. Sixty-eight (68) barrels of produced water and two (2) barrels of crude oil were recovered. The impacted area was located on pad, shown in Figure 3. A C-141 form is attached in Appendix C.

#### 2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, multiple water sources are within a 0.50-mile radius of the location. The closest well is approximately 0.08 miles Southwest of the site in S22, T23S, R28E and was drilled in 1980. The well has a reported depth to groundwater of 48' feet below the ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix D.

#### 3.0 NMAC Regulatory Criteria

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

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



#### **4.0 Site Assessment Activities**

#### Initial Site Assessment

On May 2, 2022, a third-party environmental consultant performed site assessment activities to evaluate soil impacts stemming from the release. A total of two (2) auger holes (AH-1 & AH-2) were installed to total depths ranging from surface to 4' below ground surface (bgs) inside the release area. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Figure 3A/B (historic/current view) for the sample locations.

#### Vertical Delineation

Due to a dense rock layer and the use of hand tools, vertical delineation was not achieved in the areas of AH-2. Refer to Table 1.

#### Secondary Site Assessment

On July 29, 2024, Carmona Resources performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, three (3) boreholes (BH-1 through BH-3) and four (4) horizontal sample points (H-1 through H-4) were advanced to depths ranging from the surface to 10' bgs inside and surrounding the area of concern. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Figure 3A/B (historic/current view) for the sample locations.

#### Vertical Delineation

Vertical delineation was not achieved in the area of BH-1 during the secondary site assessment but was delineated with confirmation floor samples during remediation. Vertical delineation was achieved in the areas of BH-2 & BH-3. Refer to Table 1.

#### Horizontal Delineation

Horizontal delineation was not achieved in the area of H-1 during the secondary site assessment but was delineated with confirmation sidewall samples during remediation. Horizontal delineation was achieved in the areas of H-2 through H-4. Refer to Table 1.

#### 5.0 Remediation Activities

Between September 28, 2024, and October 4, 2024, 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 NMOCD portal on September 26, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of AH-1/BH-1 was excavated to a depth of 12.0' bgs. The areas of AH-2/BH-2, BH-3, and H-1 were excavated to a depth of 10.0' bgs. A total of eight (8) confirmation floor samples were collected (CS-1 through CS-8), and thirteen (13) sidewall samples (SW-1 through SW-13) 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

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



method 4500/300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

Once the remediation activities were completed, a composite sample of the backfill material provided by Lea Land Landfill was collected for laboratory analysis on October 10, 2024, before being utilized. Refer to Table 2. Approximately 1,460 square feet of contamination was remediated, resulting in 688 cubic yards of material excavated and transported offsite for proper disposal.

#### 6.0 Reclamation Activities

Once the remediation activities were completed, the excavated area was backfilled on October 10, 2024, with clean caliche material to 2" below surface grade. The remaining 2" to surface gravel were backfilled with 3/4" crushed stone to match the surrounding surface material of the business onsite. The landowner currently has a shop/warehouse and uses the remaining area as storage for the companies' vehicles and trailers.

On October 31, 2024, communication with the landowner and business owner of Press Energy Services, LLC, discussed the NMOCD request for landowner approval and satisfaction of the above-mentioned remediation activities as well as the omittance of reclamation and reseeding of the area due to current business activities onsite. A variance is requested to 19.25.29.13 NMAC (Restoration, Reclamation and Re-Vegetation) to the exception of the topsoil layer, reseeding, and vegetation portions of the code, due to the landowner using the entire property as an industrial business. The top layer of backfill material is not topsoil due to the landowner request to use crushed gravel to support structural integrity and erosion control to the businesses parking lot. Being that this site is completely covered in crushed gravel and is an active business parking lot, the landowner requested no reseeding to occur onsite. See Appendix C for email communication with landowner. See Appendix B for photos of the backfilled area and current site conditions.

#### 7.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. Chevron formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-1992.

Sincerely,

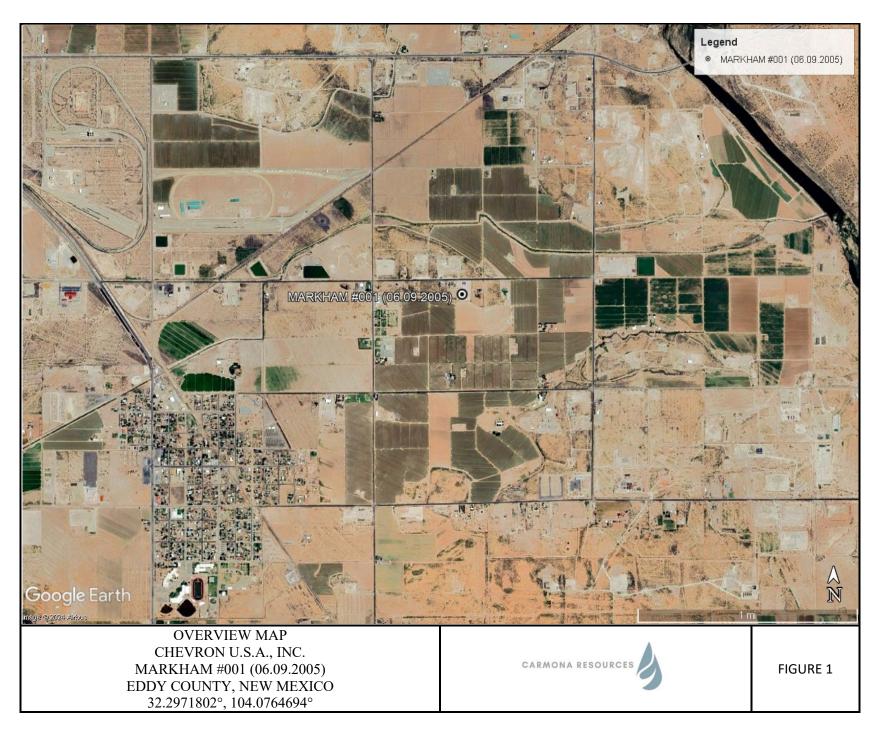
Carmona Resources, LLC

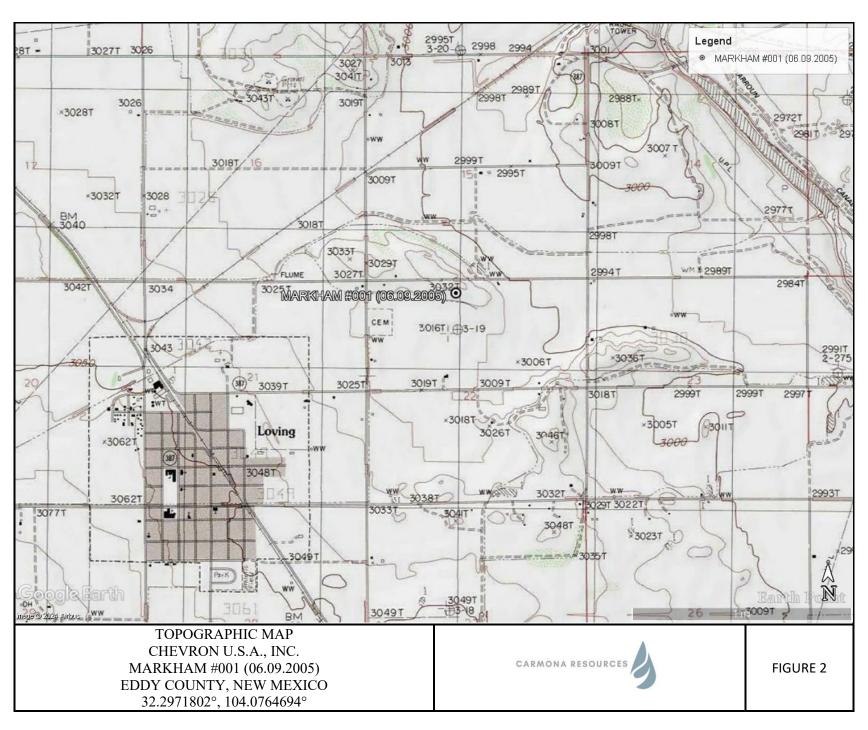
Ashton Thielke Sr. Project Manager

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

## **FIGURES**

# CARMONA RESOURCES













## **APPENDIX A**

## CARMONA RESOURCES

Table 1 Chevron MARKHAM #001 (06.09.2005) Eddy County, New Mexico

		- ·		TPH	l (mg/kg)				=0.11	V 1	D	
Sample ID	Date	Depth (ft)				Π	Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
AH-1	5/2/2022	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	16.9
	"	3.5-4'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	32.3
	7/29/2024	0-1'	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,030
	"	2'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	941
	"	3'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,440
BH-1	"	4'	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,750
	"	6'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,300
	"	8'	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,770
	"	10'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,030
411.0	5/2/2022	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	20.5
AH-2	"	3.5-4'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,000
	7/29/2024	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	905
	"	2'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	566
	"	3'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,010
BH-2	"	4'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,430
	"	6'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	3,340
	"	8'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,370
	"	10'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	202
	7/29/2024	0-1'	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	153
	"	2'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	453
	"	3'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	741
BH-3	"	4'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,070
	"	6'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,020
	"	8'	<49.9	727	<49.9	727	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,130
	"	10'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	596
H-1	7/29/2024	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	751
H-2	7/29/2024	0-1'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	480
H-3	H-3 7/29/2024 0-1' <49.8 <49.8 <49.8		<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	17.4			
H-4	7/29/2024	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	406
Regulato	ry Criteria <sup>A</sup>					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
/ N. M. /	Analyzed											

(-) Not Analyzed

A – Table 1 - 19.15.29 NMAC mg/kg - milligram per kilogram TPH - Total Petroleum Hydrocarbons ft - feet

(AH) Auger Hole

(BH) Bore Hole

(H) Horizontal Sample

Removed

Table 2 Chevron MARKHAM #001 (06.09.2005) **Eddy County, New Mexico** 

Sample ID	Date	Depth		TPH	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride (mg/kg)
Sample ID	Date	(ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Cilionae (mg/kg)
CS-1	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-2	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-3	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
CS-4	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-5	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-6	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-7	10/1/2024	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-8	10/1/2024	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-1	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-2	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-3	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-4	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-5	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-6	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-7	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-8	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-9	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-10	10/1/2024	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-11	10/1/2024	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-12	10/1/2024	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-13	10/1/2024	10.0'-12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
Lealand Backfill	10/9/2024	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	7.86
	ry Criteria <sup>A</sup> Analyzed					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

<sup>A</sup> – Table 1 - 19.15.29 NMAC mg/kg - milligram per kilogram TPH - Total Petroleum Hydrocarbons ft - feet

(CS) Confirmation Sample

(SW) Sidewall Sample

## **APPENDIX B**

## CARMONA RESOURCES

Chevron U.S.A., Inc.

Photograph No. 1

Facility: Markham #001

County: Eddy County, New Mexico

**Description:** 

View East, Area of CS-8 through CS-1



Photograph No. 2

Facility: Markham #001

County: Eddy County, New Mexico

**Description:** 

View West, area of CS-1 through CS-8



Photograph No. 3

Facility: Markham #001

County: Eddy County, New Mexico

**Description:** 

View North, area of CS-1 through CS-8



Chevron U.S.A., Inc.

#### Photograph No. 4

Facility: Markham #001

County: Eddy County, New Mexico

#### **Description:**

View West, Area Backfilled to Landowner Specifications.



#### Photograph No. 5

Facility: Markham #001

County: Eddy County, New Mexico

#### **Description:**

View South, Area Backfilled to Landowner Specifications.



#### Photograph No. 6

Facility: Markham #001

County: Eddy County, New Mexico

#### **Description:**

View East, Area Backfilled to Landowner Specifications.



Chevron U.S.A., Inc.

Photograph No. 7

Facility: Markham #001

County: Eddy County, New Mexico

**Description:** 

View West, Area Backfilled to surface..



#### Photograph No. 8

Facility: Markham #001

County: Eddy County, New Mexico

#### **Description:**

View South, Area Backfilled with additional gravel to Landowner Specifications.



#### Photograph No. 9

Facility: Markham #001

County: Eddy County, New Mexico

#### **Description:**

View South, Area Backfilled with additional gravel to Landowner Specifications.



Chevron U.S.A., Inc.

Photograph No. 10

Facility: Markham #001

County: Eddy County, New Mexico

**Description:** 

View Southwest, Area Backfilled with additional gravel to Landowner Specifications.



## **APPENDIX C**

## CARMONA RESOURCES

### ReDistrict by OCD: 11/14/2024 6:48:13 AM 1625 N. French Dr., Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Page 230fn20114
Revised October 10, 200

Submit 2 Copies to appropriat District Office in accordanc with Rule 116 on bac side of forr

#### 30-015-26544 **Release Notification and Corrective Action** nCLB0523732298 **OPERATOR** ☐ Initial Report Final Repo Contact: Bradley Blevins Name of Company: Chesapeake Energy **Telephone No.:** (505) 391-1462 ext. 24 Address: 5014 Carlsbad Highway Facility Type: Tank Battery Facility Name: Markham #1 Mineral Owner: Fee Lease No.: Surface Owner: Portions of Unit Letter C of this section are owned by Floyd Markham. Peggy Doyle, John Armsburst, Roy and Janice Shugart and Samuel Burkham. LOCATION OF RELEASE North/South Line Feet from the East/West Line County Feet from the **Unit Letter** Section Township Range 28 E North 2,250 West Eddy 22 23 S 300 C Latitude: N 32º 17' 48.737" Longitude: W 104° 04' 36.957" NATURE OF RELEASE Volume of Release: 73 barrels Volume Recovered: 70 barrels Type of Release: Water (70 barrels) and Oil (3 barrels) Source of Release: Tank Date and Hour of Occurrence: Date and Hour of Discovery: 09 June 2005 @ 0200 hours 09 June 2005 @ 0200 hrs Was Immediate Notice Given? If YES, To Whom? Mike Bratcher, NMOCD Artesia RECEIVED By Whom? Bradley Blevins. Chesapeake Energy Corporation Date and Hour: 09 June 2005 @ 1500 hrs JUN 2 7 7005 If YES, Volume Impacting the Watercourse: Was a Watercourse Reached? ☐ Yes ☒ No Not Applicable OCD-AHTEEL If a Watercourse was Impacted, Describe Fully.\* Not Applicable Describe Cause of Problem and Remedial Action Taken.\* Truck driver failed to notice the tank was spilling over during off-loading activities, resulting in the release of approxiamtely 73 barrels of crude oil and water. A vacuum truck was retained immediately to recover the liquid, with 70 barrels being recovered. Describe Area Affected and Cleanup Action Taken.\* Approximately 2,300 square feet of surface area was impacted by the release, all of which was within the bermed area. All liquid was recovered utilizing a vacuum truck. Saturated soil was excavated and stockpiled on plastic on June 10, 2005. The soil remains stockpiled on site until a remediation plan is developed. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION radby Blann TIM GUM Signature: by Me Mile BARREN **Approved by District Supervisor:** Printed Name: Bradley Blevins Expiration Date: M/A Approval Date: 🏿 Title: Field Technician E-mail Address: bblevins@chkenergy.com **Conditions of Approval:**

Phone: (505) 391-1462 ext. 24

Date: 06-23-05

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

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 387639

#### **QUESTIONS**

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	387639
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites							
Incident ID (n#)	nCLB0523732298						
Incident Name	NCLB0523732298 MARKHAM #001 @ 30-015-26544						
Incident Type	Produced Water Release						
Incident Status	Remediation Plan Approved						
Incident Well	[30-015-26544] MARKHAM #001						

Location of Release Source							
Site Name	MARKHAM #001						
Date Release Discovered	06/09/2005						
Surface Owner	Private						

Sampling Event General Information							
Please answer all the questions in this group.							
What is the sampling surface area in square feet	1,500						
What is the estimated number of samples that will be gathered	12						
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/28/2024						
Time sampling will commence	08:00 AM						

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	Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	(32.297180, -104.076469) Carmona Resources will be onsite from 09.28.2024 – 10.04.2024 to finish excavating and collect composite confirmation samples.

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 387639

#### **CONDITIONS**

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	387639
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created By		Condition Date
abarnhill	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.	9/26/2024

#### **Ashton Thielke**

From: brian pressnrg.net <bri>Sent: brian@pressnrg.net > Thursday, October 31, 2024 4:06 PM

To: Ashton Thielke Cc: Ashton Thielke

Subject: Re: Chevron - NCLB0523732298 - Markham #001 - Closure Report

Good afternoon, Ashton

Everything looks good to me.

The affected area has been remediated, excavated, and backfilled to my satisfaction.

**I DO NOT** want the top layer to contain the same background thickness of topsoil and/or one foot of suitable material to establish vegetation, since the entire property is used as an industrial business.

I DO NOT want the area reseeded, since the entire property is used as an industrial business.

Thank you, Brian Ralston Operations Manager



Cell: (479)462-9144

Email: <a href="mailto:brian@pressnrg.net">brian@pressnrg.net</a>
Website: <a href="mailto:www.pressnrg.net">www.pressnrg.net</a>

From: Ashton Thielke <ThielkeA@carmonaresources.com>

**Sent:** Thursday, October 31, 2024 10:40 AM **To:** brian pressnrg.net <br/> **Cc:** Barnhill, Amy <ABarnhill@chevron.com>

Subject: FW: Chevron - NCLB0523732298 - Markham #001 - Closure Report

Good morning Brian,

Just wanted to see if you had a chance to review this report and updated photos in the report.

Thanks!

Ashton Thielke Environmenal Manager 310 West Wall Street, Suite 500 Midland TX, 79701

M: 432-813-8988 C: 281-753-5659

## <u>ThielkeA@carmonaresources.com</u> <u>Environmental Consulting Firm - Carmona Resources</u>

### CARMONA RESOURCES



From: Ashton Thielke

**Sent:** Tuesday, October 29, 2024 8:20 AM **To:** brian pressnrg.net <br/> **Cc:** Barnhill, Amy <ABarnhill@chevron.com>

Subject: Chevron - NCLB0523732298 - Markham #001 - Closure Report

Good morning Mr. Brian Ralston,

Please see the attached closure report for the historical crude oil & produced water spill that occurred on your property.

Please let me know if you have any questions or comments in regard to our remediation and excavation of the above mentioned spill.

All contaminated material has been removed from your property (confirmed with composite confirmation floor and sidewall samples of the excavation, per NMAC 19.15.29.12), properly disposed of and backfilled to your specifications with the same ¾" crushed stone located on your property.

\*Since our last conversation, We have covered the previous remediation area with gravel per your specifications for your business. Updated photos can be found on pages 19 & 20.\*

To gain full closure of this site from the NMOCD, I will need a response with your email signature and/or company letterhead that relates to the property that this remediation took place and that you agree with the following exceptions to the NMAC 19.15.29.13 (Restoration, Reclamation and Re-Vegetation), primarily due to your property being used as a business and currently has a shop and ¾" crushed stone covering the entire property as a cover for a parking lot for company vehicles:

- The affected area has been remediated, excavated, and backfilled to your satisfaction.
- That you **DO NOT** want the top layer to contain the same background thickness of topsoil and/or one foot of suitable material to establish vegetation, since the entire property is used as an industrial business.
- That you DO NOT want the area reseeded, since the entire property is used as an industrial business.

Again, please do not hesitate to give me a call if you have any questions or concerns and I will be happy to answer them as soon as possible.

Thanks!

Ashton Thielke Environmenal Manager 310 West Wall Street, Suite 500 Midland TX, 79701

M: 432-813-8988 C: 281-753-5659 ThielkeA@carmonaresources.com

**Environmental Consulting Firm - Carmona Resources** 

Received by OCD: 11/14/2024 6:48:13 AM Form C-141 State of New Mexico
Page 6 Oil Conservation Division

	Page 27 of 201
Incident ID	
District RP	
Facility ID	
Application ID	

#### Closure

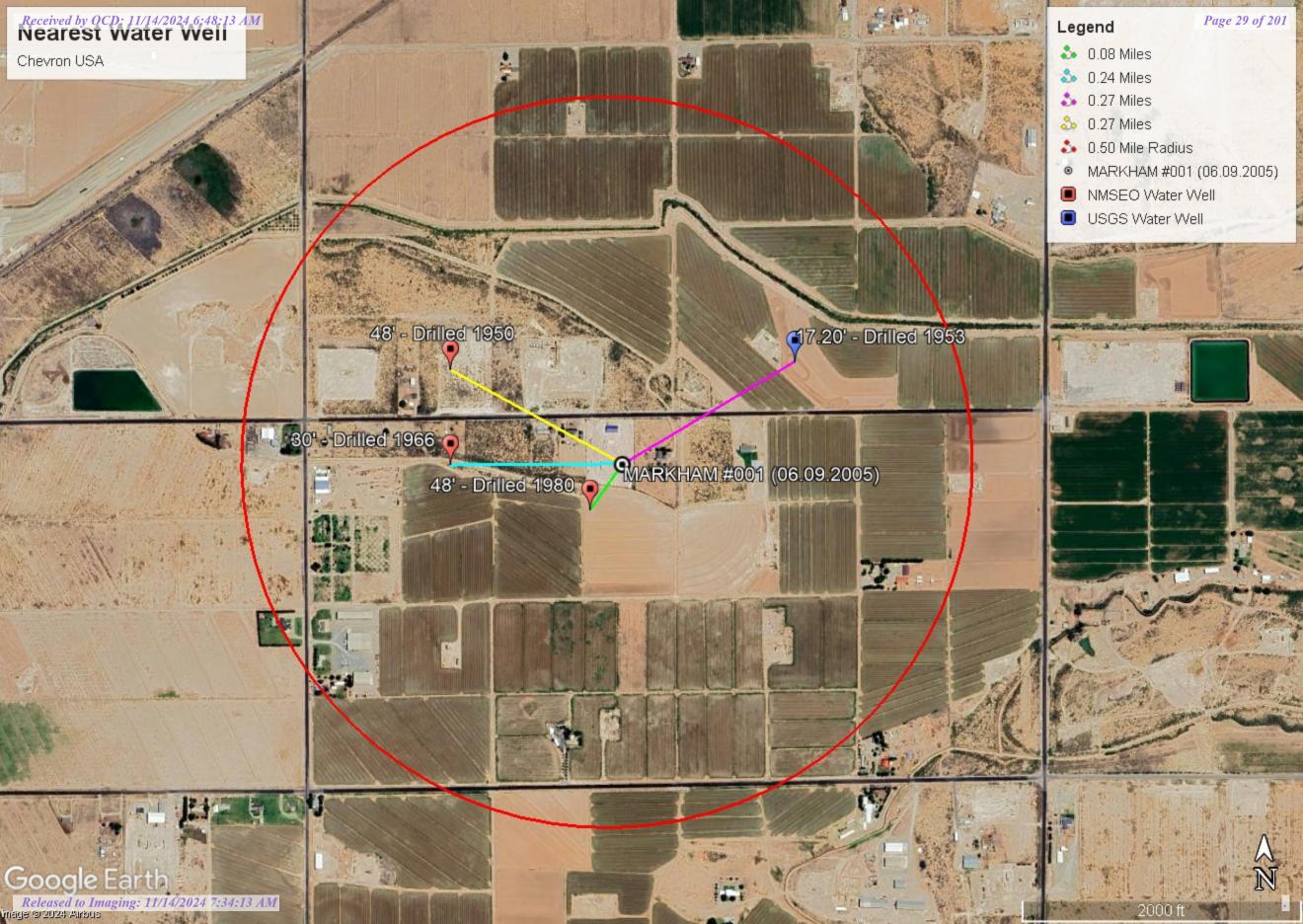
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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:  Title:									
Signature:	Date:								
email:	Telephone:								
OCD Only									
OCD Only Received by:	Date:								
Received by:  Closure approval by the OCD does not relieve the responsible party	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible								
Received by:  Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.								

## **APPENDIX D**

# CARMONA RESOURCES







### New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are smallest to largest)

(meters)

(In feet)

navor right mon	010004)		- 07									()				
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Мар	Distance			Water Column
<u>C 01872</u>		С	ED		NE	NW	22	23S	28E	586878.0	3573649.0 *	•	123	68	48	20
<u>C 01336</u>		С	ED	NE	NW	NW	22	23S	28E	586572.0	3573744.0 *	•	378	190	30	160
<u>C 00211</u>		С	ED	SE	SW	SW	15	23S	28E	586570.0	3573949.0 *	•	429	89	48	41
<u>C 00094 AS</u>	С	CUB	ED	NW	SW	NE	22	23S	28E	587183.0	3573346.0 *	•	465	165	40	125
C 01487 CLW201796	0	CUB	ED		SW	NE	22	23S	28E	587284.0	3573247.0 *	•	602	90	30	60
<u>C 01487</u>		CUB	ED	SW	SE	NW	22	23S	28E	586779.0	3573142.0 *	•	631	150	38	112
<u>C 01253</u>		CUB	ED	NW	SW	NW	22	23S	28E	586375.0	3573338.0 *	•	707	179	50	129
<u>C 00094</u>		CUB	ED	SW	SE	NE	22	23S	28E	587588.0	3573151.0 *	•	874	100	60	40
<u>C 00094</u>	С	CUB	ED	SW	SE	NE	22	23S	28E	587588.0	3573151.0 *	•	874	100	60	40
<u>C 00094 A</u>	С	CUB	ED	SW	SE	NE	22	23S	28E	587588.0	3573151.0 *	•	874	166	40	126
<u>C 01885</u>		С	ED		NE	NE	21	23S	28E	586070.0	3573640.0 *	•	887	104	35	69
<u>C 02796</u>		CUB	ED		NE	SW	22	23S	28E	586882.0	3572838.0 *	•	913	200		
<u>C 02847</u>		CUB	ED	NE	NW	SE	22	23S	28E	587386.0	3572941.0 *	•	918	80		
<u>C 02849</u>		CUB	ED	NE	NW	SE	22	23S	28E	587386.0	3572941.0 *	•	918	60		
<u>C 00128</u>		С	ED	NE	SE	SE	15	23S	28E	587783.0	3574162.0 *	•	929	149		
<u>C 01816</u>		С	ED	NW	SW	NW	23	23S	28E	587992.0	3573355.0 *	•	1113	200	40	160
<u>C 00024</u>	0	CUB	ED			SW	22	23S	28E	586682.0	3572629.0 *	•	1152	242	48	194
<u>C 00453</u>		С	ED	NE	NE	SE	22	23S	28E	587790.0	3572945.0 *	•	1162	65		
<u>C 03762 POD3</u>		CUB	ED	SE	NE	NE	16	23S	28E	586203.4	3574642.4	•	1164	40	30	10
<u>C 00072</u>		CUB	ED	SW	SW	NW	15	23S	28E	586364.0	3574760.0 *	•	1168	120	54	66
<u>C 00048</u>		CUB	ED	SW	SW	NW	23	23S	28E	587997.2	3573160.4	•	1200	182	75	107
<u>C 00048</u>	C	CUB	ED	SW	SW	NW	23	23S	28E	587997.2	3573160.4	•	1200	182	75	107
<u>C 00443</u>		С	ED	SE	NE	SE	22	23S	28E	587790.0	3572745.0 *	•	1308	171	160	11
<u>C 00269</u>		С	ED	SE	SE	NE	15	23S	28E	587778.0	3574773.0 *	•	1316	240	35	205
C 00269 CLW199753	0	С	ED	SE	SE	NE	15	23S	28E	587778.0	3574773.0 *	•	1316	240	35	205
<u>C 01870</u>		С	ED		SE	SW	22	23S	28E	586885.0	3572432.0 *	•	1318	105	48	57

October 7, 2024 02:37 PM MST

Page 1 of 3

Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are smallest to largest)

(meters) (In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Мар	Distance	Well Depth		Water Column
<u>C 02189</u>		С	ED	NW	NW	SW	14	23S	28E	587985.0	3574572.0 *	•	1321	48	29	19
<u>C 00321</u>		С	ED		SE	NE	15	23S	28E	587679.0	3574874.0 *		1339	120		
<u>C 02503</u>		С	ED		SE	NE	15	23S	28E	587679.0	3574874.0 *	•	1339	70	12	58
<u>C 00327</u>		CUB	ED	SW	NE	SE	21	23S	28E	585974.0	3572728.0 *	•	1413	212		
<u>C 00869</u>		CUB	ED	SW	SW	SE	22	23S	28E	587188.0	3572335.0 *	•	1434	360		
C 00154 CLW194067	0	CUB	ED	SW	NE	NW	23	23S	28E	588395.0	3573566.0 *		1455	150	65	85
<u>C 01108</u>		С	ED	SW	NE	NW	23	23S	28E	588395.0	3573566.0 *		1455	60	35	25
C 03974 POD1		С	ED	NE	NE	NW	27	23S	28E	587087.1	3572220.9		1534	75	43	32
<u>C 00616</u>		CUB	ED	NW	SW	NW	14	23S	28E	587982.0	3574978.0 *		1604	120	30	90
<u>C 00641</u>		С	ED	NE	NE	NW	27	23S	28E	586986.0	3572126.0 *		1623	115	40	75
<u>C 00716</u>		С	ED				21	23S	28E	585471.0	3573012.0 *	•	1653	140	69	71
<u>C 00154</u>		CUB	ED	SE	NE	NW	23	23S	28E	588595.0	3573566.0 *	•	1654	196	38	158
C 03762 POD1		CUB	ED	SE	SE	NE	17	23S	28E	585313.8	3574066.1		1667	40	31	9
C 03432 POD1		С	ED	NW	NE	NE	27	23S	28E	587527.4	3572162.5	•	1688	115	75	40
<u>C 00235</u>		С	ED		NE	NE	15	23S	28E	587676.0	3575280.0 *		1693	160		
<u>C 00869 S-2</u>	0	CUB	ED		SW	SW	23	23S	28E	588097.0	3572444.0 *		1737	150	58	92
<u>C 00340</u>		С	ED		NW	NW	27	23S	28E	586483.0	3572022.0 *	•	1789	117	18	99
<u>C 00326</u>		CUB	ED	SW	SW	SW	10	23S	28E	586358.0	3575572.0 *	•	1916	130	19	111
C 00326 CLW196238	0	CUB	ED	SW	SW	SW	10	23S	28E	586358.0	3575572.0 *	•	1916	196	25	171
<u>C 01122</u>		CUB	ED	NW	NW	NW	26	23S	28E	587999.0	3572138.0 *		1922	175	30	145
<u>C 01102</u>		С	ED		NW	NE	23	23S	28E	588901.0	3573672.0 *	•	1951	100	12	88
C 04451 POD1		С	ED	SE	SE	SE	10	23S	28E	587833.0	3575521.8		1979	120	57	63

Average Depth to Water: 45 feet

Minimum Depth: 12 feet

Maximum Depth: 160 feet

**Record Count:** 48

#### **UTM Filters (in meters):**

**Easting:** 586950.63

**Radius: 2000** 

\* UTM location was derived from PLSS - see Help

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

X

#### STATE ENGINEER OFFICE **WELL RECORD**



### Section 1, GENERAL INFORMATION

Street or F	ost Office Ac	ddressR	e, Doyle T I, Box I New Mexico	) 불					· · · · · · · · · · · · · · · · · · ·			
Well was drilled	under Permit	NoC	-1872		and is located	in the:						
a	4 <u>NE</u> 1	4 <u>NW</u> 4	¼ of Section_	22	_ Township	23S Ran	ge	} <u>r</u>	N.M.P.M.			
b. Tract N	lo	of Map No.		_ of the _								
							-					
d. X=	·	feet, Y=		feet, N.M	I. Coordinate S							
			<u> </u>									
			Moreland									
Address	728	Standpipe	Road Car	Lsbad,	, New Me	rico 882:	50	•				
Drilling Began _	April	7_198@comp	leted June 12	<u> 1980</u>	Type tools	Cable	Size of	hole9	in.			
Elevation of land	d surface or _		-	_ at well	is	_ ft. Total depth	of well	68	ft.			
Completed well	is 🖾 s	hallow 🔲 a	rtesian.	D	epth to water	upon completion	of well	48_	ft.			
		Sect	ion 2. PRINCIPAL	WATER	BEARING ST	RATA						
Depth in From	n Feet To	Thickness in Feet	Descrip	tion of W	ater-Bearing F	ormation	Estimated Yield (gallons per minute)					
		- /										
52	<u>68</u>	<u> </u>	Conglo	Conglomerate Rock					200-300			
	·											
0.0			Section 3. RI	ECORD C	F CASING							
Diameter	Pounds	Threads	Depth in Fee		Length	Type of Shoe Perforations			ons			
(inches)	per foot	per in.	Top Bo	ttom	(feet)	1,000 01 0110	F <sub>1</sub>	rom	То			
7 6.D	23	IO			53	None						
					· · · · · · · · · · · · · · · · · · ·							
	·	<u> </u>										
Depth is	n Feét	Section Hole	on 4. RECORD OF Sacks	<del>- ,                                     </del>	NG AND CEM							
From	То	Diameter	of Mud			f Cement Meth		od of Placement				
0	52	9				<u>ر</u> د	'o .co					
52	68	6글				The second			*			
	·		Section 5. PI	LICCING	PECOPD	976 976 976 977		7				
Plugging Contra	ctor		Section 3. Fi	"OGGING	3 KECOKD		m D	~ - ====================================				
Address						Depth in l		Cubic				
Plugging Method Date Well Plugge	l ed				_   1	Top	Bottom	of Ce	ment			
Plugging approve					2							
	. <u> </u>	State Engi	neer Representativ	e	— 3 4							
<del></del>	<del>,</del>		FOR USE OF ST	ATE ENG	GINEER ONL	Y						
Date Received	July 2,	1980		Quad _		FWL _	+ +,	_ FSL				
od Filenboaina	C-1872	7:34:13 AM	Use	Dom.	& Stock	FWL _	3.28.22.	.12212				

veu by GCD. 1	1/14/2024 0.40		Section 6. LOG OF HOLE
	in Feet	Thickness	Color and Type of Material Encountered
From	То	in Feet	Color and Type or Material Englandered
0	3	3	White Caliche
	5	2	Brown Sand & Gravel
5	12	7	Pink Caliche
15	<b>I</b> 6	4	Brown Sand
<u> </u>	40	24	Pink Pink Caliche
40	52	15	Brown Sand & Silt
52	68	16	Brown Conglomerate Rock
1		10 to	
		3	
	-	7	
জীৱনি জীৱন বিজ্ঞানি কৰিছিল। বিজ্ঞানি	i i		
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	11.74	· · · · · · · · · · · · · · · · · · ·	

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER OFFICE ROSWELL N. M.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, exception 5, shall be answered as completely an urately as possible when any well is sused as a plugging record, only Section 1(a) and Section 5 need be completed.

Form WR-23

#### STATE ENGINEER OFFICE

463041

#### WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section			a section s n	·	-	Nymeyer						
						RFD						
								N.M.				
	-  <u> </u>					<b></b>		d is located in the				
			1					8. Rge. 29 E.				
<b> </b>	<del>                                     </del>	<u> </u>	— (B) Dr	illing Contr	actor Hos	ard Hemler	Lice	ense No. W. D. 24				
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ļ	- <del> </del>			_	_			N.M.				
								19 66				
L			Drilling	was compl	eted	9/20		19 66				
	Plat of 640	_										
								_190				
State w	hether w	ell is shall	low or artesia	n shallo	DT4	Depth to wa	ter upon compl	etion30				
Section	2		PF	INCIPAL W	ATER-BEA	RING STRATA						
No.		in Feet	Thickness in	ı İ	D	escription of Water	r-Bearing Formati	on				
· .	From	То	reet	Feet								
1	388	1,2	1_1	gravel								
2	66	75	9	,								
3	155	160.		cong								
4	うり											
5								<u></u>				
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Section	3				RD OF CA	SING	<u> </u>	O ( ) ( )				
Dia in.	Pounds	s Thre	<u>-</u>	Depth Top   Bottom		Type Shoe	Perferations To					
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BHI.D.	32	weld			52		38	<u> </u>				
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<del></del>	· · · · · · · · · · · · · · · · · · ·				ļ			1 5				
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Section	4		RECO	ORD OF MU	DDING AI	ND CEMENTING						
Dept	Depth in Feet Diameter			No. Sa	acks of							
From	То	Hole i	n in. Clay	Cen	nent		Methods Used					
						-						
	<u>i</u>			<u> </u>								
Section	E			DI LICA	SING REC	CODD						
							*					
		•=						0				
					-							
	=											
						Date Plu						
ruggm	approve	d by:			<del> </del>		gs were placed a	S TOHOWS:				
			Rasin S	upervisor	N	$\begin{array}{c c} \hline  & Depth of P \\ \hline  & From & T \end{array}$	No. c	of Sacks Used				
	<del></del> -	N MEK	11786071		<b>-</b> 7  -	110.11	10					
	FOR US	E OF STA	re engineer	ONLY		_	<del></del>					
D-4-	331	AEEB OEE	STATE ENGI									
Date	_,,,,,,											
	CI	IIIMA 9	S MAC Tabl	$\backslash \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$								
				1								
File No	$\mathcal{C}$	-1330	0	Use	Vom	Locatio	n No. 23, 29	.22,112.				

Section 6

LOG OF WELL

Depth	in Feet	Thickness	Colon	Type of Material Encountered
From	To	in Feet	Color	Type of Material Encountered
0	5	5		soil
5	34	29		sand
34	38.	4		cong
38	42	14		gravel water
15	60	18	red	clay
60	66	6		cong
66	75	9		cong water
75	15 <b>5</b>	80	blue	shale
<b>1</b> 55	160	5		cong water
60	<b>19</b> 0	30		gype clay
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<del> </del>	- 11-	<u> </u>		
		<u></u>		

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well

Well Drille



**USGS** Home **Contact USGS** Search USGS

**National Water Information System: Web Interface** 

**USGS** Water Resources

Groundwater ✓ New Mexico **∨** GO

### Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- How are we doing? We want to hear from you. Take our quick survey to tell us what you think.

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 =

• 321757104042101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

### USGS 321757104042101 23S.28E.15.433131

Eddy County, New Mexico Latitude 32°17'57", Longitude 104°04'21" NAD27

Land-surface elevation 3,000 feet above NAVD88

The depth of the well is 149 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.

	U	utp	ut	tor	mats	
--	---	-----	----	-----	------	--

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

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1953-02-05		D	62610		2981.23	NGVD29	1	Z			Α
1953-02-05		D	62611		2982.80	NAVD88	1	Z			Α
1953-02-05		D	72019	17.20			1	Z			Α

### Explanation

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

Questions or Comments <u>Help</u> **Data Tips** 

Explanation of terms

Subscribe for system changes

Page 39 of 201

FOIA

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

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2024-10-07 16:45:09 EDT
0.37 0.24 nadww02

USA.gov

# **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 Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Υ	Мар
	C 00211	SE	SW	SW	15	23S	28E	586570.0	3573949.0 *	•

\* UTM location was derived from PLSS - see Help

Driller License:	592	Driller Company:	TOMBLIN DRILLING		
Driller Name:	J. W. TOMBLI	N			
<b>Drill Start Date:</b>	1979-06-19	Drill Finish Date:	1979-06-20	Plug Date:	
Log File Date:	1979-09-26	PCW Rcv Date:	1950-12-08	Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	18
Casing Size:	7.00	Depth Well:	89	Depth Water:	48

# **Water Bearing Stratifications:**

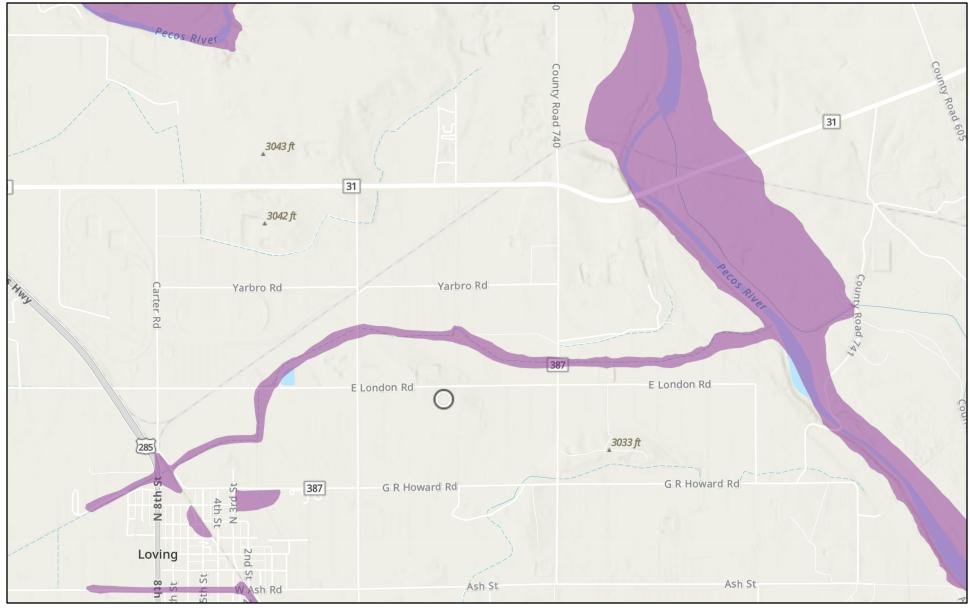
Тор	Bottom	Description
75	88	Sandstone/Gravel/Conglomerate

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

10/7/24 2:43 PM MST Point of Diversion Summary

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# MARKHAM #001 (06.09.2005)

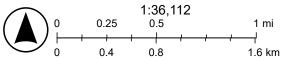


10/7/2024

**USA Flood Hazard Areas** 

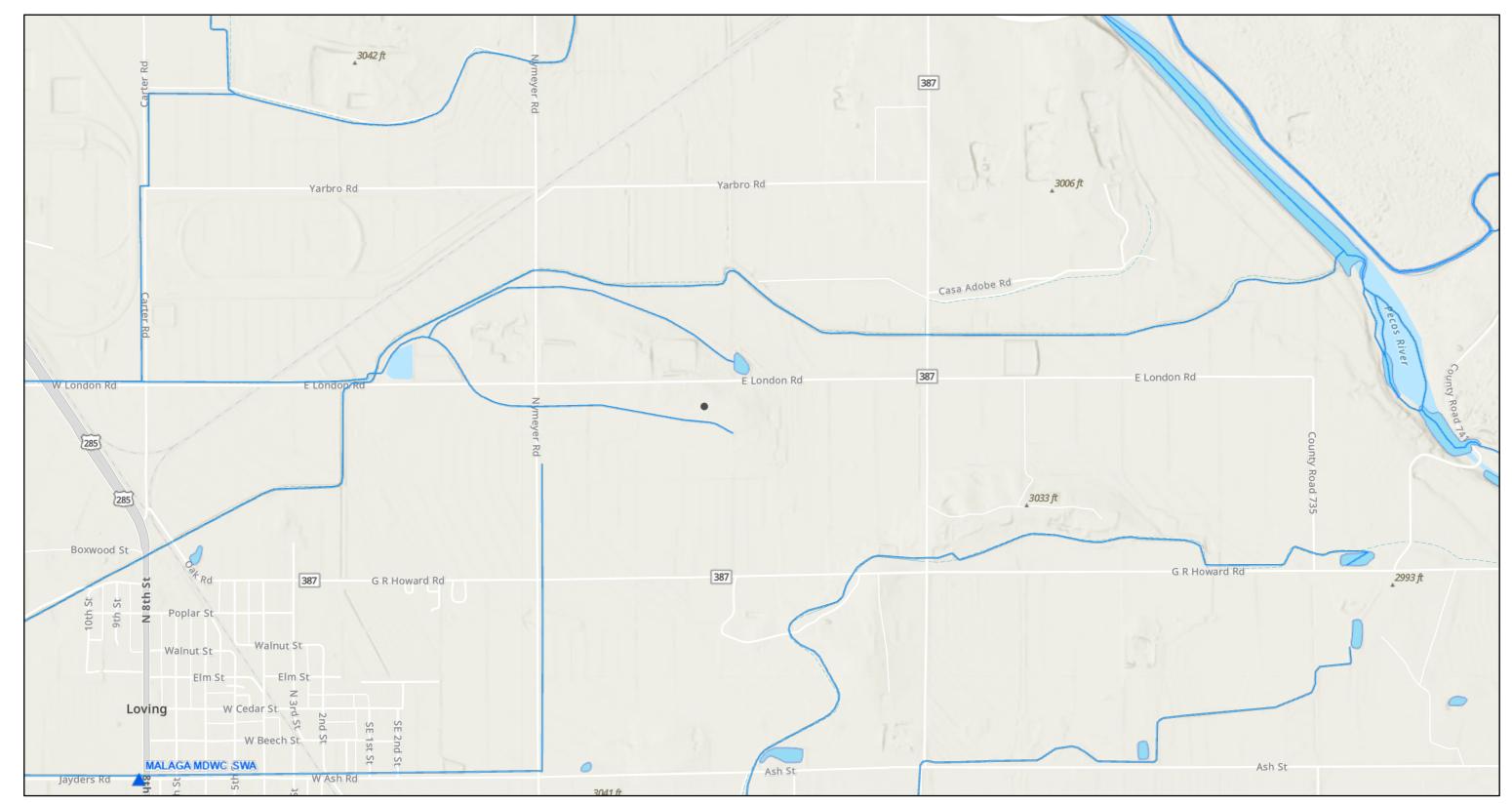
1% Annual Chance Flood Hazard

World Hillshade



Esri, NASA, NGA, USGS, FEMA, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS,

# MARKHAM #001 (06.09.2005)

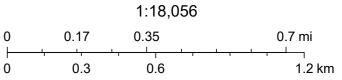


10/7/2024, 3:36:18 PM

OSW Water Bodys

OSE Streams

NMED Drinking Water Systems



Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, NM OSE

# **APPENDIX E**

# CARMONA RESOURCES

# **Environment Testing America**

# **ANALYTICAL REPORT**

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

Laboratory Job ID: 880-14332-1

Laboratory Sample Delivery Group: 15315

Client Project/Site: Markham #001

For:

Etech Environmental & Safety Solutions PO BOX 62228

Midland, Texas 79711

Attn: Brandon Wilson

MAMER

Authorized for release by: 5/11/2022 3:27:58 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

.....LINKS .....

Review your project results through

11----



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 11/14/2024 7t34113 AMM

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

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

1

2

3

4

5

7

10

15

13

Client: Etech Environmental & Safety Solutions

Laboratory Job ID: 880-14332-1 Project/Site: Markham #001 SDG: 15315

# **Table of Contents**

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QC Sample Results	10
QC Association Summary	13
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Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	21

### **Definitions/Glossary**

Client: Etech Environmental & Safety Solutions

Project/Site: Markham #001

Job ID: 880-14332-1

SDG: 15315

**Qualifiers** 

**GC VOA** 

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

**HPLC/IC** 

Qualifier **Qualifier Description** 

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor** 

Detection Limit (DoD/DOE) DΙ

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) Most Probable Number MPN Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NFG 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)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

**TNTC** Too Numerous To Count

### **Case Narrative**

Client: Etech Environmental & Safety Solutions

Project/Site: Markham #001

Job ID: 880-14332-1 SDG: 15315

Job ID: 880-14332-1

**Laboratory: Eurofins Midland** 

Narrative

Job Narrative 880-14332-1

### Receipt

The samples were received on 5/3/2022 11:39 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C

### **GC VOA**

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

### GC Semi VOA

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

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-24814 and analytical batch 880-24887 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client: Etech Environmental & Safety Solutions

Project/Site: Markham #001

Job ID: 880-14332-1

SDG: 15315

Matrix: Solid

Lab Sample ID: 880-14332-1

Client Sample ID: Auger Hole 1

Date Collected: 05/02/22 13:00 Date Received: 05/03/22 11:39

Sample Depth: 0 - 6"

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/10/22 10:52	05/11/22 05:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/10/22 10:52	05/11/22 05:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/10/22 10:52	05/11/22 05:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/10/22 10:52	05/11/22 05:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/10/22 10:52	05/11/22 05:36	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/10/22 10:52	05/11/22 05:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				05/10/22 10:52	05/11/22 05:36	1
1,4-Difluorobenzene (Surr)	99		70 - 130				05/10/22 10:52	05/11/22 05:36	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/11/22 08:13	1
: Method: 8015 NM - Diesel Range	•								
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	•	Qualifier	<b>RL</b>	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/06/22 10:31	
Analyte Total TPH	Result   <49.9	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte	Result   <49.9	Qualifier U		MDL		<u> </u>	Prepared		
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte	Result <49.9  ge Organics (DI Result	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg	<u>D</u>	Prepared	05/06/22 10:31  Analyzed	1 Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.9  ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg	<u> </u>	<u> </u>	05/06/22 10:31	1 Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9  ge Organics (DI Result <49.9	Qualifier U  RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg  Unit mg/Kg	<u> </u>	Prepared 05/04/22 14:31	05/06/22 10:31  Analyzed  05/05/22 16:06	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9  ge Organics (DI Result	Qualifier U  RO) (GC) Qualifier U	49.9		mg/Kg	<u> </u>	Prepared	05/06/22 10:31  Analyzed	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9  ge Organics (DI Result <49.9	Qualifier U  RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg  Unit mg/Kg	<u> </u>	Prepared 05/04/22 14:31	05/06/22 10:31  Analyzed  05/05/22 16:06	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result   <49.9	Qualifier U  RO) (GC) Qualifier U	49.9  RL 49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg	<u> </u>	Prepared 05/04/22 14:31 05/04/22 14:31	05/06/22 10:31  Analyzed  05/05/22 16:06  05/05/22 16:06	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result   <49.9	Qualifier U  RO) (GC) Qualifier U  U	49.9  RL 49.9  49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg	<u> </u>	Prepared 05/04/22 14:31 05/04/22 14:31	05/06/22 10:31  Analyzed 05/05/22 16:06 05/05/22 16:06	Dil Face 1 1 1 Dil Face
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result   <49.9	Qualifier U  RO) (GC) Qualifier U  U	49.9  RL 49.9  49.9  49.9  Limits		mg/Kg  Unit mg/Kg  mg/Kg	<u> </u>	Prepared 05/04/22 14:31 05/04/22 14:31 05/04/22 14:31 Prepared	05/06/22 10:31  Analyzed  05/05/22 16:06  05/05/22 16:06  05/05/22 16:06  Analyzed	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <49.9	Qualifier U  RO) (GC) Qualifier U  U  Qualifier	49.9  RL 49.9  49.9  49.9  Limits 70 - 130		mg/Kg  Unit mg/Kg  mg/Kg	<u> </u>	Prepared 05/04/22 14:31 05/04/22 14:31 05/04/22 14:31  Prepared 05/04/22 14:31	05/06/22 10:31  Analyzed 05/05/22 16:06 05/05/22 16:06  Analyzed 05/05/22 16:06	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result   <49.9	Qualifier U  RO) (GC) Qualifier U  U  Qualifier	49.9  RL 49.9  49.9  49.9  Limits 70 - 130		mg/Kg  Unit mg/Kg  mg/Kg  mg/Kg	<u> </u>	Prepared 05/04/22 14:31 05/04/22 14:31 05/04/22 14:31  Prepared 05/04/22 14:31	05/06/22 10:31  Analyzed 05/05/22 16:06 05/05/22 16:06  Analyzed 05/05/22 16:06	Dil Fac  1  Dil Fac  1  1  Dil Fac  1  Dil Fac

Client Sample ID: Auger Hole 1

Date Collected: 05/02/22 13:05

Date Received: 05/03/22 11:39

Sample Depth: 42 - 48"

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 08:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 08:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 08:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/10/22 10:52	05/11/22 08:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 08:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/10/22 10:52	05/11/22 08:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/10/22 10:52	05/11/22 08:39	

**Eurofins Midland** 

Lab Sample ID: 880-14332-2

**Matrix: Solid** 

Client: Etech Environmental & Safety Solutions

Project/Site: Markham #001

Job ID: 880-14332-1

SDG: 15315

Client Sample ID: Auger Hole 1

Date Collected: 05/02/22 13:05 Date Received: 05/03/22 11:39

Sample Depth: 42 - 48"

Lab Sample ID: 880-14332-2

Lab Sample ID: 880-14332-3

05/11/22 08:59

**Matrix: Solid** 

Matrix: Solid

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

Qualifier %Recovery Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 05/10/22 10:52 1,4-Difluorobenzene (Surr) 98 05/11/22 08:39

**Method: Total BTEX - Total BTEX Calculation** 

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00398 0.00398 05/11/22 08:13 mg/Kg

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

RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <49.9 49.9 05/06/22 10:31 mg/Kg

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

**MDL** Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <49.9 U mg/Kg Gasoline Range Organics 49.9 05/04/22 14:31 05/05/22 16:27 (GRO)-C6-C10 <49.9 U 49.9 05/04/22 14:31 05/05/22 16:27 Diesel Range Organics (Over mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 05/04/22 14:31 05/05/22 16:27 Qualifier Limits Prepared Analyzed Dil Fac

Surrogate %Recovery 1-Chlorooctane 102 70 - 130 o-Terphenyl 103 70 - 130

100

05/04/22 14:31 05/05/22 16:27 05/05/22 16:27 05/04/22 14:31

05/10/22 10:52

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 4.99 05/06/22 07:53 Chloride 32.3 mg/Kg

Client Sample ID: Auger Hole 2

Date Collected: 05/02/22 13:10 Date Received: 05/03/22 11:39

Sample Depth: 0 - 6"

1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 05/10/22 10:52 05/11/22 08:59 Toluene <0.00200 U 0.00200 05/10/22 10:52 05/11/22 08:59 mg/Kg Ethylbenzene <0.00200 U 0.00200 05/10/22 10:52 05/11/22 08:59 mg/Kg m-Xylene & p-Xylene <0.00399 U 0.00399 05/10/22 10:52 05/11/22 08:59 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 05/10/22 10:52 05/11/22 08:59 Xylenes, Total <0.00399 U 0.00399 mg/Kg 05/10/22 10:52 05/11/22 08:59 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 70 - 130 05/10/22 10:52 4-Bromofluorobenzene (Surr) 109 05/11/22 08:59

**Method: Total BTEX - Total BTEX Calculation** 

Analyte RL MDL D Result Qualifier Unit Prepared Analyzed Dil Fac Total BTEX <0.00399 0.00399 05/11/22 08:13 mg/Kg

70 - 130

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 05/06/22 10:31 Total TPH <49.9 U 49.9 mg/Kg

Client: Etech Environmental & Safety Solutions

Project/Site: Markham #001

Job ID: 880-14332-1

SDG: 15315

Client Sample ID: Auger Hole 2

Date Collected: 05/02/22 13:10

Date Received: 05/03/22 11:39

Sample Depth: 0 - 6"

Lab Sample ID: 880-14332-3

Lab Sample ID: 880-14332-4

**Matrix: Solid** 

Matrix: Solid

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

	, : 5 - : : - : - :	, (,							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/04/22 14:31	05/05/22 17:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/04/22 14:31	05/05/22 17:10	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/04/22 14:31	05/05/22 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	76Recovery Qualifier	LIIIIIS		Frepareu	Allalyzeu	DII Fac
1-Chlorooctane	114	70 - 130	-	05/04/22 14:31	05/05/22 17:10	1
o-Terphenyl	115	70 - 130		05/04/22 14:31	05/05/22 17:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL MDL Unit D Dil Fac Prepared Analyzed 5.05 mg/Kg 05/06/22 07:59 Chloride 20.5

Client Sample ID: Auger Hole 2

Date Collected: 05/02/22 13:15 Date Received: 05/03/22 11:39

Sample Depth: 42 - 48"

Method: 8021B - Volatile Organic Compounds (GC)

Wethou. Our ID - Volatile Of	gariic Compounds (	<b>G</b> O)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 09:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 09:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 09:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/10/22 10:52	05/11/22 09:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 09:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/10/22 10:52	05/11/22 09:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	05/10/22 10:52	05/11/22 09:19	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/10/22 10:52	05/11/22 09:19	1

Method: Total BTEX - Total BTEX Calcula	tion	
	_	

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/11/22 08:13	1

Method: 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			05/06/22 10:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/04/22 14:31	05/05/22 17:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/04/22 14:31	05/05/22 17:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/04/22 14:31	05/05/22 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	05/04/22 14:31	05/05/22 17:31	1
o-Terphenyl	100		70 - 130	05/04/22 14:31	05/05/22 17:31	1

**Eurofins Midland** 

5/11/2022

Client: Etech Environmental & Safety Solutions

Project/Site: Markham #001

Job ID: 880-14332-1

SDG: 15315

Client Sample ID: Auger Hole 2

Date Collected: 05/02/22 13:15

Date Received: 05/03/22 11:39

Lab Sample ID: 880-14332-4

Matrix: Solid

Sample Depth: 42 - 48"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier Dil Fac Analyte RL MDL Unit D Prepared Analyzed 25.0 05/06/22 08:06 Chloride 3000 mg/Kg

### **Surrogate Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Markham #001

Job ID: 880-14332-1

SDG: 15315

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)	
880-14332-1	Auger Hole 1	108	99	
880-14332-2	Auger Hole 1	107	98	
880-14332-3	Auger Hole 2	109	100	
880-14332-4	Auger Hole 2	110	100	
880-14580-A-4-B MS	Matrix Spike	104	98	
880-14580-A-4-C MSD	Matrix Spike Duplicate	106	101	
LCS 880-25266/1-A	Lab Control Sample	99	99	
LCSD 880-25266/2-A	Lab Control Sample Dup	100	97	
MB 880-25110/5-A	Method Blank	101	95	
MB 880-25266/5-A	Method Blank	98	95	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

_			
		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-14332-1	Auger Hole 1	90	91
880-14332-2	Auger Hole 1	102	103
880-14332-3	Auger Hole 2	114	115
880-14332-4	Auger Hole 2	96	100

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

### **QC Sample Results**

Client: Etech Environmental & Safety Solutions

Project/Site: Markham #001

Job ID: 880-14332-1

SDG: 15315

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25110/5-A

**Matrix: Solid** Analysis Batch: 25224 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25110

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		05/09/22 13:08	05/10/22 12:02	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	d	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	05/09/22 1	3:08	05/10/22 12:02	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/09/22 1	3:08	05/10/22 12:02	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25266

**Matrix: Solid** Analysis Batch: 25224

Lab Sample ID: MB 880-25266/5-A

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/10/22 10:52	05/11/22 03:04	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/10/22 10:52	05/11/22 03:04	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/10/22 10:52	05/11/22 03:04	1

**Client Sample ID: Lab Control Sample** Lab Sample ID: LCS 880-25266/1-A

**Matrix: Solid** Analysis Batch: 25224 Prep Type: Total/NA Prep Batch: 25266

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08603		mg/Kg		86	70 - 130	
Toluene	0.100	0.08465		mg/Kg		85	70 - 130	
Ethylbenzene	0.100	0.08620		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene	0.200	0.1796		mg/Kg		90	70 - 130	
o-Xylene	0.100	0.09780		mg/Kg		98	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1.4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: LCSD 880-25266/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 25224** Prep Batch: 25266

Spike LCSD LCSD RPD %Rec Result Qualifier Analyte Added Unit %Rec Limits RPD Limit Benzene 0.100 0.07230 mg/Kg 72 70 - 130 17

### QC Sample Results

Client: Etech Environmental & Safety Solutions

Project/Site: Markham #001

Job ID: 880-14332-1

SDG: 15315

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

Lab Sample ID: LCSD 880-25266/2-A

**Matrix: Solid** Analysis Batch: 25224 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25266

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.07434		mg/Kg		74	70 - 130	13	35
Ethylbenzene	0.100	0.07575		mg/Kg		76	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.1592		mg/Kg		80	70 - 130	12	35
o-Xylene	0.100	0.08755		mg/Kg		88	70 - 130	11	35

LCSD LCSD

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

Lab Sample ID: 880-14580-A-4-B MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

Analysis Batch: 25224

Prep Type: Total/NA

Prep Batch: 25266

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00201	U	0.0998	0.07959		mg/Kg		80	70 - 130
Toluene	<0.00201	U	0.0998	0.07831		mg/Kg		78	70 - 130
Ethylbenzene	<0.00201	U	0.0998	0.08032		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1674		mg/Kg		84	70 - 130
o-Xylene	< 0.00201	U	0.0998	0.09136		mg/Kg		92	70 - 130

MS MS

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

Lab Sample ID: 880-14580-A-4-C MSD

**Matrix: Solid** 

**Analysis Batch: 25224** 

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 25266

7 mining 0:10 = 0:10:11 = 0== 1											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.100	0.08680		mg/Kg		87	70 - 130	9	35
Toluene	<0.00201	U	0.100	0.08529		mg/Kg		85	70 - 130	9	35
Ethylbenzene	<0.00201	U	0.100	0.08679		mg/Kg		87	70 - 130	8	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1811		mg/Kg		90	70 - 130	8	35
o-Xylene	<0.00201	U	0.100	0.09802		mg/Kg		98	70 - 130	7	35

MSD MSD

Surroyale	76Recovery	Qualifier	LIIIIII
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24814/1-A

**Matrix: Solid** 

Analysis Batch: 24887

Client Sample ID: Method Blank

**Prep Type: Soluble** 

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Analyte Result Qualifier MDL Unit Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 05/06/22 06:37

### QC Sample Results

Client: Etech Environmental & Safety Solutions

Project/Site: Markham #001

Job ID: 880-14332-1

SDG: 15315

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-24814/2-A

**Client Sample ID: Lab Control Sample Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 24887** 

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	266.7		mg/Kg	_	107	90 - 110	

Lab Sample ID: LCSD 880-24814/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 24887

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	273.0		mg/Kg		109	90 - 110	2	20	

Lab Sample ID: 880-14331-A-1-C MS Client Sample ID: Matrix Spike

**Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 24887

MS MS %Rec Spike Sample Sample Analyte Result Qualifier Added Result Qualifier Unit Limits Chloride 11.1 F1 250 305.4 F1 118 90 - 110 mg/Kg

Lab Sample ID: 880-14331-A-1-D MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 24887

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	11.1	F1	250	281.0		mg/Kg		108	90 - 110	8	20

### **QC Association Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Markham #001

Job ID: 880-14332-1 SDG: 15315

GC VOA

Prep Batch: 25110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-25110/5-A	Method Blank	Total/NA	Solid	5035	

**Analysis Batch: 25224** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14332-1	Auger Hole 1	Total/NA	Solid	8021B	25266
880-14332-2	Auger Hole 1	Total/NA	Solid	8021B	25266
880-14332-3	Auger Hole 2	Total/NA	Solid	8021B	25266
880-14332-4	Auger Hole 2	Total/NA	Solid	8021B	25266
MB 880-25110/5-A	Method Blank	Total/NA	Solid	8021B	25110
MB 880-25266/5-A	Method Blank	Total/NA	Solid	8021B	25266
LCS 880-25266/1-A	Lab Control Sample	Total/NA	Solid	8021B	25266
LCSD 880-25266/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25266
880-14580-A-4-B MS	Matrix Spike	Total/NA	Solid	8021B	25266
880-14580-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25266

Prep Batch: 25266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14332-1	Auger Hole 1	Total/NA	Solid	5035	_
880-14332-2	Auger Hole 1	Total/NA	Solid	5035	
880-14332-3	Auger Hole 2	Total/NA	Solid	5035	
880-14332-4	Auger Hole 2	Total/NA	Solid	5035	
MB 880-25266/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25266/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25266/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14580-A-4-B MS	Matrix Spike	Total/NA	Solid	5035	
880-14580-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14332-1	Auger Hole 1	Total/NA	Solid	Total BTEX	
880-14332-2	Auger Hole 1	Total/NA	Solid	Total BTEX	
880-14332-3	Auger Hole 2	Total/NA	Solid	Total BTEX	
880-14332-4	Auger Hole 2	Total/NA	Solid	Total BTEX	

**GC Semi VOA** 

Prep Batch: 24832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14332-1	Auger Hole 1	Total/NA	Solid	8015NM Prep	
880-14332-2	Auger Hole 1	Total/NA	Solid	8015NM Prep	
880-14332-3	Auger Hole 2	Total/NA	Solid	8015NM Prep	
880-14332-4	Auger Hole 2	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14332-1	Auger Hole 1	Total/NA	Solid	8015B NM	24832
880-14332-2	Auger Hole 1	Total/NA	Solid	8015B NM	24832
880-14332-3	Auger Hole 2	Total/NA	Solid	8015B NM	24832
880-14332-4	Auger Hole 2	Total/NA	Solid	8015B NM	24832

**Eurofins Midland** 

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### **QC Association Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Markham #001

Job ID: 880-14332-1

SDG: 15315

### GC Semi VOA

### Analysis Batch: 24956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
880-14332-1	Auger Hole 1	Total/NA	Solid	8015 NM
880-14332-2	Auger Hole 1	Total/NA	Solid	8015 NM
880-14332-3	Auger Hole 2	Total/NA	Solid	8015 NM
880-14332-4	Auger Hole 2	Total/NA	Solid	8015 NM

### HPLC/IC

### Leach Batch: 24814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14332-1	Auger Hole 1	Soluble	Solid	DI Leach	
880-14332-2	Auger Hole 1	Soluble	Solid	DI Leach	
880-14332-3	Auger Hole 2	Soluble	Solid	DI Leach	
880-14332-4	Auger Hole 2	Soluble	Solid	DI Leach	
MB 880-24814/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24814/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24814/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14331-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-14331-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

### **Analysis Batch: 24887**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14332-1	Auger Hole 1	Soluble	Solid	300.0	24814
880-14332-2	Auger Hole 1	Soluble	Solid	300.0	24814
880-14332-3	Auger Hole 2	Soluble	Solid	300.0	24814
880-14332-4	Auger Hole 2	Soluble	Solid	300.0	24814
MB 880-24814/1-A	Method Blank	Soluble	Solid	300.0	24814
LCS 880-24814/2-A	Lab Control Sample	Soluble	Solid	300.0	24814
LCSD 880-24814/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24814
880-14331-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	24814
880-14331-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	24814

Client: Etech Environmental & Safety Solutions

Project/Site: Markham #001

Job ID: 880-14332-1 SDG: 15315

Client Sample ID: Auger Hole 1

Date Collected: 05/02/22 13:00 Date Received: 05/03/22 11:39

Lab Sample ID: 880-14332-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	25266	05/10/22 10:52	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25224	05/11/22 05:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25301	05/11/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24956	05/06/22 10:31	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24832	05/04/22 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/05/22 16:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	24814	05/04/22 12:07	SC	XEN MID
Soluble	Analysis	300.0		1			24887	05/06/22 07:34	CH	XEN MID

Client Sample ID: Auger Hole 1

Date Collected: 05/02/22 13:05

Date Received: 05/03/22 11:39

Lab Sample ID: 880-14332-2

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	25266	05/10/22 10:52	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25224	05/11/22 08:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25301	05/11/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24956	05/06/22 10:31	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24832	05/04/22 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/05/22 16:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24814	05/04/22 12:07	SC	XEN MID
Soluble	Analysis	300.0		1			24887	05/06/22 07:53	CH	XEN MID

Client Sample ID: Auger Hole 2

Date Collected: 05/02/22 13:10

Date Received: 05/03/22 11:39

Lab Sample	ID: 880-14332-3
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**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25266	05/10/22 10:52	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25224	05/11/22 08:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25301	05/11/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24956	05/06/22 10:31	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24832	05/04/22 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/05/22 17:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	24814	05/04/22 12:07	SC	XEN MID
Soluble	Analysis	300.0		1			24887	05/06/22 07:59	CH	XEN MID

Client Sample ID: Auger Hole 2

Date Collected: 05/02/22 13:15

Date Received: 05/03/22 11:39

Lab Sample ID	): 880-14332- <b>4</b>
	Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25266	05/10/22 10:52	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25224	05/11/22 09:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25301	05/11/22 08:13	AJ	XEN MID

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### **Lab Chronicle**

Client: Etech Environmental & Safety Solutions

Project/Site: Markham #001

Job ID: 880-14332-1 SDG: 15315

Client Sample ID: Auger Hole 2

Date Collected: 05/02/22 13:15 Date Received: 05/03/22 11:39

Lab Sample ID: 880-14332-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24956	05/06/22 10:31	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24832	05/04/22 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/05/22 17:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24814	05/04/22 12:07	SC	XEN MID
Soluble	Analysis	300.0		5			24887	05/06/22 08:06	CH	XEN MID

### Laboratory References:

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

# **Accreditation/Certification Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Markham #001

Job ID: 880-14332-1

SDG: 15315

### **Laboratory: Eurofins Midland**

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

Authority	Pi	rogram	Identification Number	Expiration Date
Texas		ELAP	T104704400-21-22	06-30-22
	•	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo
the agency does not of	fer certification.			
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

### **Method Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Markham #001

Job ID: 880-14332-1

SDG: 15315

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

### **Protocol References:**

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

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

**Eurofins Midland** 

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### **Sample Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Markham #001

Job ID: 880-14332-1

SDG:	15315

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-14332-1	Auger Hole 1	Solid	05/02/22 13:00	05/03/22 11:39	0 - 6"
880-14332-2	Auger Hole 1	Solid	05/02/22 13:05	05/03/22 11:39	42 - 48"
880-14332-3	Auger Hole 2	Solid	05/02/22 13:10	05/03/22 11:39	0 - 6"
880-14332-4	Auger Hole 2	Solid	05/02/22 13:15	05/03/22 11:39	42 - 48"

# **Chain of Custody**

Work Order No: 14332

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334 Midland TX (432-704-5440) EL Paso TX (915)585-3443 Lubbock,TX (806)794-1296

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Phone:	477-563			Em	ail: brandon@e	teche	nv con	<u>n</u>						7	Deliv	erable	s ED			т 🗆	0	ther <sup>-</sup>			
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### **Login Sample Receipt Checklist**

Client: Etech Environmental & Safety Solutions

Job Number: 880-14332-1

SDG Number: 15315

Login Number: 14332 List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or ampered 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	
s the Field Sampler's name present on COC?	True	
here 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	
ppropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	N/A	

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**Environment Testing** 

# **ANALYTICAL REPORT**

## PREPARED FOR

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

Generated 8/2/2024 11:08:53 AM

# **JOB DESCRIPTION**

Markham #001 Eddy Co, NM

# **JOB NUMBER**

880-46629-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

# **Eurofins Midland**

### **Job Notes**

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

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

### **Authorization**

Generated 8/2/2024 11:08:53 AM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 1

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Client: Carmona Resources Project/Site: Markham #001 Laboratory Job ID: 880-46629-1 SDG: Eddy Co, NM

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**Eurofins Midland** 

8/2/2024

### **Definitions/Glossary**

Job ID: 880-46629-1 Client: Carmona Resources Project/Site: Markham #001 SDG: Eddy Co, NM

**Qualifiers** 

**GC VOA** 

Qualifier **Qualifier Description** 

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

**GC Semi VOA** 

Qualifier **Qualifier Description** 

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description** 

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

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor** 

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

**EDL** Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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: Markham #001

Job ID: 880-46629-1

**Eurofins Midland** Job ID: 880-46629-1

### Job Narrative 880-46629-1

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

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

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

### Receipt

The samples were received on 7/30/2024 8:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5) (880-46629-1), H-2 (0-0.5) (880-46629-2), H-3 (0-0.5) (880-46629-3) and H-4 (0-0.5) (880-46629-4).

### **GC VOA**

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-87036 and analytical batch 880-86998 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-87107 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-87107/20).

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

### **Diesel Range Organics**

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

### HPLC/IC

Method 300 ORGFM 28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-87050 and analytical batch 880-87112 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.

The associated samples are: H-1 (0-0.5) (880-46629-1), H-2 (0-0.5) (880-46629-2), H-3 (0-0.5) (880-46629-3), H-4 (0-0.5) (880-46629-4), (880-46628-A-61-A), (880-46628-A-61-B MS) and (880-46628-A-61-C MSD).

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

Job ID: 880-46629-1

SDG: Eddy Co, NM

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

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

Client: Carmona Resources

Project/Site: Markham #001

Lab Sample ID: 880-46629-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 14:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 14:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 14:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/24 15:49	07/31/24 14:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 14:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/24 15:49	07/31/24 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				07/30/24 15:49	07/31/24 14:14	1
1,4-Difluorobenzene (Surr)	91		70 - 130				07/30/24 15:49	07/31/24 14:14	1
Method: TAL SOP Total BTEX			DI	MDI	Unit	n	Propared	Analyzod	Dil Fa
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Total BTEX	Result   <0.00400	<b>Qualifier</b> U	0.00400	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/31/24 14:14	
Analyte Total BTEX  . Method: SW846 8015 NM - Die	Result <0.00400	Qualifier U	0.00400 GC)		mg/Kg			07/31/24 14:14	Dil Fac
Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	Result <0.00400 esel Range Organ Result	Qualifier U ics (DRO) ( Qualifier	0.00400 GC)		mg/Kg	<u>D</u>	Prepared Prepared	07/31/24 14:14  Analyzed	
Analyte Total BTEX  . Method: SW846 8015 NM - Die	Result <0.00400	Qualifier U ics (DRO) ( Qualifier	0.00400 GC)		mg/Kg			07/31/24 14:14	Dil Fac
Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	Result <0.00400 esel Range Organ Result <49.8	Qualifier U ics (DRO) ( Qualifier U	0.00400  GC)  RL  49.8		mg/Kg			07/31/24 14:14  Analyzed	1
Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	esel Range Organ Result <49.8	Qualifier U ics (DRO) ( Qualifier U	0.00400  GC)  RL  49.8	MDL	mg/Kg			07/31/24 14:14  Analyzed	Dil Fac
Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	esel Range Organ Result <49.8	Qualifier U ics (DRO) ( Qualifier U unics (DRO) Qualifier	0.00400  GC)  RL  49.8	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared	07/31/24 14:14  Analyzed  07/30/24 22:38	Dil Fac
Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D Analyte	esel Range Organ Result <49.8  viesel Range Orga Result Result Result Result Result Result Result Result	Qualifier U ics (DRO) ( Qualifier U unics (DRO) Qualifier	0.00400  GC)  RL  49.8  (GC)  RL	MDL	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared Prepared	07/31/24 14:14  Analyzed  07/30/24 22:38  Analyzed	Dil Fac
Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D Analyte Gasoline Range Organics	esel Range Organ Result <49.8  viesel Range Orga Result Result Result Result Result Result Result Result	Qualifier U ics (DRO) ( Qualifier U unics (DRO) Qualifier U	0.00400  GC)  RL  49.8  (GC)  RL	MDL	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared Prepared	07/31/24 14:14  Analyzed  07/30/24 22:38  Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93	70 - 130	07/30/24 10:46	07/30/24 22:38	1
o-Terphenyl	86	70 - 130	07/30/24 10:46	07/30/24 22:38	1

49.8

mg/Kg

07/30/24 10:46

07/30/24 22:38

<49.8 U

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 5.02 Chloride 751 mg/Kg 08/01/24 16:28

Client Sample ID: H-2 (0-0.5) Lab Sample ID: 880-46629-2 Date Collected: 07/29/24 00:00 **Matrix: Solid** 

Date Received: 07/30/24 08:30

Oil Range Organics (Over C28-C36)

– Method: SW846 8021B - Volati	le Organic Comp	ounds (GC)	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/24 15:49	07/31/24 14:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/24 15:49	07/31/24 14:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/24 15:49	07/31/24 14:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/24 15:49	07/31/24 14:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/24 15:49	07/31/24 14:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/24 15:49	07/31/24 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				07/30/24 15:49	07/31/24 14:35	1
1,4-Difluorobenzene (Surr)	92		70 - 130				07/30/24 15:49	07/31/24 14:35	1

Job ID: 880-46629-1

SDG: Eddy Co, NM

Project/Site: Markham #001

Client: Carmona Resources

Lab Sample ID: 880-46629-2

**Client Sample ID: H-2 (0-0.5)** Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/31/24 14:35	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/24 22:53	1
- Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/30/24 10:46	07/30/24 22:53	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/30/24 10:46	07/30/24 22:53	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/30/24 10:46	07/30/24 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				07/30/24 10:46	07/30/24 22:53	1
o-Terphenyl	85		70 - 130				07/30/24 10:46	07/30/24 22:53	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solubl	<b>A</b>						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	480		4.97		mg/Kg	— <u> </u>		08/01/24 16:33	1

Client Sample ID: H-3 (0-0.5) Lab Sample ID: 880-46629-3

Date Collected: 07/29/24 00:00

Date Received: 07/30/24 08:30

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		07/30/24 15:49	07/31/24 17:44	
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/24 15:49	07/31/24 17:44	•
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/24 15:49	07/31/24 17:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/24 15:49	07/31/24 17:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/24 15:49	07/31/24 17:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/24 15:49	07/31/24 17:44	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				07/30/24 15:49	07/31/24 17:44	
			70 - 130				07/30/24 15:49	07/31/24 17:44	
Method: TAL SOP Total BTEX - Analyte	· Total BTEX Cald	Qualifier	70 - 130  RL 0.00402	MDL	Unit mg/Kg	<u>D</u>	07/30/24 15:49 Prepared	07/31/24 17:44  Analyzed  07/31/24 17:44	
Method: TAL SOP Total BTEX - Analyte Total BTEX	- Total BTEX Calc Result <0.00402	<b>Qualifier</b> U	RL 0.00402	MDL		<u>D</u>		Analyzed	
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies	Total BTEX Calc Result <a href="https://www.esel-no.00402"></a>	<b>Qualifier</b> U	RL 0.00402			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte	Total BTEX Calc Result <a href="https://www.esel-no.00402"></a>	Qualifier U ics (DRO) (Qualifier	RL 0.00402		mg/Kg	=	Prepared	Analyzed 07/31/24 17:44	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH	rotal BTEX Calc Result <0.00402  sel Range Organ Result <49.8	Qualifier U ics (DRO) ( Qualifier U	RL 0.00402 GC) RL 49.8		mg/Kg	=	Prepared	Analyzed 07/31/24 17:44 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH  Method: SW846 8015B NM - Dies	rotal BTEX Calc Result <a href="mailto:cond-oxed-sel-rule">- Result <a href="mailto:cup-rule">- Result <a href="mailto:cup-rule">- 49.8</a> esel Range Organ</a></a>	Qualifier U ics (DRO) ( Qualifier U	RL 0.00402 GC) RL 49.8	MDL	mg/Kg	=	Prepared	Analyzed 07/31/24 17:44 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte	rotal BTEX Calc Result <a href="mailto:cond-oxed-sel-rule">- Result <a href="mailto:cup-rule">- Result <a href="mailto:cup-rule">- 49.8</a> esel Range Organ</a></a>	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier	RL 0.00402  GC)  RL 49.8	MDL	mg/Kg  Unit mg/Kg	<u></u>	Prepared Prepared	Analyzed 07/31/24 17:44  Analyzed 07/30/24 23:09	Dil Fac

Client: Carmona Resources Project/Site: Markham #001 Job ID: 880-46629-1 SDG: Eddy Co, NM

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

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

Lab Sample ID: 880-46629-3

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/30/24 10:46	07/30/24 23:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				07/30/24 10:46	07/30/24 23:09	1
o-Terphenyl	92		70 - 130				07/30/24 10:46	07/30/24 23:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 17.4 5.02 08/01/24 16:38 mg/Kg

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

Date Collected: 07/29/24 00:00

Date Received: 07/30/24 08:30

Lab Sample ID: 880-46629-4

**Matrix: Solid** 

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:00	07/31/24 03:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:00	07/31/24 03:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:00	07/31/24 03:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/24 11:00	07/31/24 03:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:00	07/31/24 03:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/24 11:00	07/31/24 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				07/30/24 11:00	07/31/24 03:35	1
1,4-Difluorobenzene (Surr)	75		70 - 130				07/30/24 11:00	07/31/24 03:35	1

Method: TAL SOP Total BTEX - Tot	tal BTEX Calc	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/31/24 03:35	1

Method: SW846 8015 NM - Diesel Ran	ge Organ	ics (DRO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/24 23:24	1
Method: SW846 8015B NM - Diesel Ra	nge Orga	nics (DRO) (GC)							
A In	D 14	O1161	D.	MADI	1114		Danage and all	A II	D:: E

	(=::-)	(/						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/30/24 23:24	1
<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/30/24 23:24	1
<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/30/24 23:24	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
99		70 - 130				07/30/24 10:46	07/30/24 23:24	1
90		70 - 130				07/30/24 10:46	07/30/24 23:24	1
	Result   <50.0   <50.0   <50.0     <50.0	Result   Qualifier	<50.0 U 50.0 <50.0 U 50.0 <50.0 U 50.0 %Recovery Qualifier Limits 99 70 - 130	Result         Qualifier         RL         MDL           <50.0	Result         Qualifier         RL         MDL         Unit           <50.0	Result         Qualifier         RL         MDL         Unit         D           <50.0	Result         Qualifier         RL         MDL mg/Kg         D mg/Kg         Prepared           <50.0	Result         Qualifier         RL         MDL unit         D mg/Kg         Prepared Prepared         Analyzed O7/30/24 23:24           <50.0

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	406		4.98		mg/Kg			08/01/24 16:43	1

**Eurofins Midland** 

### **Surrogate Summary**

Client: Carmona Resources

Job ID: 880-46629-1

Project/Site: Markham #001

SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		DED4	DED=4	Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
80-46629-1	H-1 (0-0.5)	105	91	
80-46629-2	H-2 (0-0.5)	109	92	
80-46629-3	H-3 (0-0.5)	105	92	
80-46629-4	H-4 (0-0.5)	98	75	
80-46655-A-1-D MS	Matrix Spike	94	99	
80-46655-A-1-E MSD	Matrix Spike Duplicate	93	97	
90-6962-A-16-B MS	Matrix Spike	127	96	
90-6962-A-16-C MSD	Matrix Spike Duplicate	118	87	
CS 880-87036/1-A	Lab Control Sample	119	100	
S 880-87082/1-A	Lab Control Sample	93	95	
CSD 880-87036/2-A	Lab Control Sample Dup	124	97	
CSD 880-87082/2-A	Lab Control Sample Dup	101	97	
B 880-86932/5-A	Method Blank	92	88	
IB 880-87036/5-A	Method Blank	86	88	
1B 880-87082/5-A	Method Blank	100	82	
Surrogate Legend				
BFB = 4-Bromofluorober	zene (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)	
880-46629-1	H-1 (0-0.5)	93	86	
880-46629-2	H-2 (0-0.5)	92	85	
880-46629-3	H-3 (0-0.5)	99	92	
880-46629-4	H-4 (0-0.5)	99	90	
890-6962-A-21-C MS	Matrix Spike	97	91	
890-6962-A-21-D MSD	Matrix Spike Duplicate	97	92	
LCS 880-87034/2-A	Lab Control Sample	89	83	
LCSD 880-87034/3-A	Lab Control Sample Dup	89	82	
MB 880-87034/1-A	Method Blank	79	78	
Surrogate Legend				

**Eurofins Midland** 

OTPH = o-Terphenyl

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Client: Carmona Resources Job ID: 880-46629-1 SDG: Eddy Co, NM Project/Site: Markham #001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-86932/5-A

**Matrix: Solid** 

Analysis Batch: 86998

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 86932

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/24 15:26	07/30/24 11:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/24 15:26	07/30/24 11:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/24 15:26	07/30/24 11:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/29/24 15:26	07/30/24 11:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/24 15:26	07/30/24 11:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/29/24 15:26	07/30/24 11:28	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Pre	epared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/29	9/24 15:26	07/30/24 11:28	1
1,4-Difluorobenzene (Surr)	88		70 - 130	07/29	9/24 15:26	07/30/24 11:28	1

Lab Sample ID: MB 880-87036/5-A

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87036

Analysis Batch: 86998

	INID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:00	07/30/24 22:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:00	07/30/24 22:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:00	07/30/24 22:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/24 11:00	07/30/24 22:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:00	07/30/24 22:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/24 11:00	07/30/24 22:42	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	07/30/24 11:00	07/30/24 22:42	1
1,4-Difluorobenzene (Surr)	88		70 - 130	07/30/24 11:00	07/30/24 22:42	1

Lab Sample ID: LCS 880-87036/1-A

**Matrix: Solid** 

Analysis Batch: 86998

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 87036

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1010		mg/Kg		101	70 - 130	
Toluene	0.100	0.1015		mg/Kg		102	70 - 130	
Ethylbenzene	0.100	0.1170		mg/Kg		117	70 - 130	
m-Xylene & p-Xylene	0.200	0.2418		mg/Kg		121	70 - 130	
o-Xylene	0.100	0.1190		mg/Kg		119	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	119	70 - 130
1.4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-87036/2-A

Matrix: Solid

Analysis Batch: 86998

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
B B ( ) 07000

Prep Batch: 87036

	Spike	LCSD LCSD				%Rec		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1019	mg/Kg		102	70 - 130	1	35	

### QC Sample Results

Client: Carmona Resources Job ID: 880-46629-1 Project/Site: Markham #001 SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-87036/2-A

**Matrix: Solid** 

Analysis Batch: 86998

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA Prep Batch: 87036

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1022		mg/Kg		102	70 - 130	1	35
Ethylbenzene	0.100	0.1227		mg/Kg		123	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2508		mg/Kg		125	70 - 130	4	35
o-Xylene	0.100	0.1234		mg/Kg		123	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-6962-A-16-B MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

Analysis Batch: 86998

Prep Type: Total/NA

Prep Batch: 87036

MS MS %Rec Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Benzene <0.00202 U F1 0.100 0.08452 85 70 - 130 mg/Kg Toluene <0.00202 U 0.100 0.08863 mg/Kg 89 70 - 130 Ethylbenzene <0.00202 U 0.100 0.1094 mg/Kg 109 70 - 130 0.200 m-Xylene & p-Xylene <0.00404 U 0.2197 70 - 130 mg/Kg 110 o-Xylene <0.00202 U 0.100 0.1094 mg/Kg 109 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	127	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: 890-6962-A-16-C MSD

**Matrix: Solid** 

Analysis Batch: 86998

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 87036

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U F1	0.100	0.06674	F1	mg/Kg		67	70 - 130	24	35
Toluene	<0.00202	U	0.100	0.07608		mg/Kg		76	70 - 130	15	35
Ethylbenzene	<0.00202	U	0.100	0.09045		mg/Kg		90	70 - 130	19	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1775		mg/Kg		89	70 - 130	21	35
o-Xylene	<0.00202	U	0.100	0.08873		mg/Kg		89	70 - 130	21	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	87	70 - 130

Lab Sample ID: MB 880-87082/5-A

**Matrix: Solid** 

**Analysis Batch: 87107** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87082

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 11:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 11:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 11:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/24 15:49	07/31/24 11:50	1

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Dil Fac

### QC Sample Results

Client: Carmona Resources Job ID: 880-46629-1 Project/Site: Markham #001 SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-87082/5-A

**Matrix: Solid** 

Analyte

**Analysis Batch: 87107** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87082

MB MB Result Qualifier RL MDL Unit Prepared Analyzed

o-Xylene <0.00200 U 0.00200 07/30/24 15:49 07/31/24 11:50 mg/Kg Xylenes, Total <0.00400 U 0.00400 mg/Kg 07/30/24 15:49 07/31/24 11:50

MR MR

Surrogate	%Recovery C	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100	70 - 130	07/30/24 15:49	07/31/24 11:50	1
1,4-Difluorobenzene (Surr)	82	70 - 130	07/30/24 15:49	07/31/24 11:50	1

**Client Sample ID: Lab Control Sample** Lab Sample ID: LCS 880-87082/1-A

**Matrix: Solid** 

Prep Type: Total/NA **Analysis Batch: 87107** Prep Batch: 87082

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1191 mg/Kg 119 70 - 130 Toluene 0.100 0.1057 mg/Kg 106 70 - 130 0.100 0.1087 109 Ethylbenzene mg/Kg 70 - 130 m-Xylene & p-Xylene 0.200 0.2181 mg/Kg 109 70 - 130 0.100 o-Xylene 0.1102 mg/Kg 110 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
1.4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: LCSD 880-87082/2-A

**Matrix: Solid** 

**Analysis Batch: 87107** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87082

LCSD LCSD Spike %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.1213 mg/Kg 121 70 - 130 2 35 Toluene 0.100 0.1073 mg/Kg 107 70 - 130 2 35 Ethylbenzene 0.100 0.1100 mg/Kg 110 70 - 130 35 m-Xylene & p-Xylene 0.200 0.2206 mg/Kg 110 70 - 130 35 o-Xylene 0.100 0.1114 mg/Kg 70 - 130 35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1.4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: 880-46655-A-1-D MS

**Matrix: Solid** 

**Analysis Batch: 87107** 

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 87082

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.100	0.1238		mg/Kg		124	70 - 130	
Toluene	<0.00202	U	0.100	0.1042		mg/Kg		104	70 - 130	
Ethylbenzene	<0.00202	U	0.100	0.1027		mg/Kg		103	70 - 130	
m-Xylene & p-Xylene	<0.00404	U	0.200	0.2044		mg/Kg		102	70 - 130	
o-Xylene	<0.00202	U	0.100	0.1045		mg/Kg		105	70 - 130	

Client: Carmona Resources Project/Site: Markham #001

Job ID: 880-46629-1

SDG: Eddy Co, NM

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

Lab Sample ID: 880-46655-A-1-D MS

**Matrix: Solid** 

**Analysis Batch: 87107** 

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 87082

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1 4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-46655-A-1-E MSD

**Matrix: Solid** 

**Analysis Batch: 87107** 

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 87082

	•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
l	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
l	Benzene	<0.00202	U	0.100	0.1138		mg/Kg		114	70 - 130	8	35
١	Toluene	<0.00202	U	0.100	0.09384		mg/Kg		94	70 - 130	11	35
	Ethylbenzene	<0.00202	U	0.100	0.08629		mg/Kg		86	70 - 130	17	35
	m-Xylene & p-Xylene	<0.00404	U	0.200	0.1711		mg/Kg		86	70 - 130	18	35
	o-Xylene	<0.00202	U	0.100	0.08967		mg/Kg		90	70 - 130	15	35
١												

MSD MSD

1/10 1/10

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 93 70 - 130 1,4-Difluorobenzene (Surr) 97 70 - 130

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

Lab Sample ID: MB 880-87034/1-A

**Matrix: Solid** 

Analysis Batch: 87030

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87034

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 07/30/24 10:46 07/30/24 20:16 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 07/30/24 10:46 07/30/24 20:16 C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 07/30/24 10:46 07/30/24 20:16

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	07/30/24 10:	46 07/30/24 20:16	1
o-Terphenyl	78		70 - 130	07/30/24 10:	46 07/30/24 20:16	1

Lab Sample ID: LCS 880-87034/2-A

**Matrix: Solid** 

Analysis Batch: 87030

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 87034

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	 1000	1101		mg/Kg		110	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	880.9		mg/Kg		88	70 - 130	
040,000)								

C10-C28)

	LUS	LUS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	83		70 - 130

**Eurofins Midland** 

8/2/2024

Job ID: 880-46629-1

SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-87034/3-A

**Matrix: Solid** 

Analysis Batch: 87030

Client: Carmona Resources

Project/Site: Markham #001

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 87034

Prep Batch: 87034

Prep Type: Total/NA

Spike LCSD LCSD RPD RPD Limit Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1097 mg/Kg 110 70 - 130 0 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 873.7 87 70 - 130 mg/Kg 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 890-6962-A-21-C MS Client Sample ID: Matrix Spike Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 87030** 

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	993	1010		mg/Kg		102	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.7	U	993	866.7		mg/Kg		87	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 97 70 - 130 o-Terphenyl 91 70 - 130

Lab Sample ID: 890-6962-A-21-D MSD

**Matrix: Solid** 

Analysis Batch: 87030									Prep	Batch:	87034
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	993	1030		mg/Kg		104	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.7	U	993	897.2		mg/Kg		90	70 - 130	3	20

MSD MSD Qualifier Limits Surrogate %Recovery 1-Chlorooctane 97 70 - 130 92 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87050/1-A

**Matrix: Solid** 

Analysis Batch: 87112

Client Sample ID: Method Blank **Prep Type: Soluble** 

MB MB

Analyte Result Qualifier RL MDL Analyzed Dil Fac Unit D Prepared Chloride <5.00 U 5.00 08/01/24 15:56 mg/Kg

### QC Sample Results

Client: Carmona Resources Job ID: 880-46629-1 Project/Site: Markham #001 SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-87050/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 87112

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 264.2 mg/Kg 106 90 - 110

Lab Sample ID: LCSD 880-87050/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 87112** 

Spike LCSD LCSD %Rec RPD Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Chloride 250 264.5 mg/Kg 106 90 - 110 0

Lab Sample ID: 880-46628-A-61-B MS Client Sample ID: Matrix Spike

**Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 87112** 

MS MS %Rec Spike Sample Sample Analyte Result Qualifier Added Result Qualifier Unit Limits Chloride 682 F1 252 966.3 F1 113 90 - 110 mg/Kg

Lab Sample ID: 880-46628-A-61-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 87112** 

Spike MSD MSD RPD Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec RPD Limit Limits 252 969.7 F1 Chloride 682 F1 114 90 - 110 20 mg/Kg

### **QC Association Summary**

Client: Carmona Resources Job ID: 880-46629-1 Project/Site: Markham #001 SDG: Eddy Co, NM

**GC VOA** 

Pre	n Ba	tch:	86932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-86932/5-A	Method Blank	Total/NA	Solid	5035	

### Analysis Batch: 86998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46629-4	H-4 (0-0.5)	Total/NA	Solid	8021B	87036
MB 880-86932/5-A	Method Blank	Total/NA	Solid	8021B	86932
MB 880-87036/5-A	Method Blank	Total/NA	Solid	8021B	87036
LCS 880-87036/1-A	Lab Control Sample	Total/NA	Solid	8021B	87036
LCSD 880-87036/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87036
890-6962-A-16-B MS	Matrix Spike	Total/NA	Solid	8021B	87036
890-6962-A-16-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	87036

### Prep Batch: 87036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46629-4	H-4 (0-0.5)	Total/NA	Solid	5035	
MB 880-87036/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87036/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87036/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6962-A-16-B MS	Matrix Spike	Total/NA	Solid	5035	
890-6962-A-16-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

### Prep Batch: 87082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-46629-1	H-1 (0-0.5)	Total/NA	Solid	5035	<u> </u>
880-46629-2	H-2 (0-0.5)	Total/NA	Solid	5035	
880-46629-3	H-3 (0-0.5)	Total/NA	Solid	5035	
MB 880-87082/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87082/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87082/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-46655-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-46655-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

### **Analysis Batch: 87107**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46629-1	H-1 (0-0.5)	Total/NA	Solid	8021B	87082
880-46629-2	H-2 (0-0.5)	Total/NA	Solid	8021B	87082
880-46629-3	H-3 (0-0.5)	Total/NA	Solid	8021B	87082
MB 880-87082/5-A	Method Blank	Total/NA	Solid	8021B	87082
LCS 880-87082/1-A	Lab Control Sample	Total/NA	Solid	8021B	87082
LCSD 880-87082/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87082
880-46655-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	87082
880-46655-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	87082

### Analysis Batch: 87168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46629-1	H-1 (0-0.5)	Total/NA	Solid	Total BTEX	
880-46629-2	H-2 (0-0.5)	Total/NA	Solid	Total BTEX	
880-46629-3	H-3 (0-0.5)	Total/NA	Solid	Total BTEX	
880-46629-4	H-4 (0-0.5)	Total/NA	Solid	Total BTEX	

### **QC Association Summary**

Client: Carmona Resources

Job ID: 880-46629-1

Project/Site: Markham #001

SDG: Eddy Co, NM

### GC Semi VOA

### Analysis Batch: 87030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46629-1	H-1 (0-0.5)	Total/NA	Solid	8015B NM	87034
880-46629-2	H-2 (0-0.5)	Total/NA	Solid	8015B NM	87034
880-46629-3	H-3 (0-0.5)	Total/NA	Solid	8015B NM	87034
880-46629-4	H-4 (0-0.5)	Total/NA	Solid	8015B NM	87034
MB 880-87034/1-A	Method Blank	Total/NA	Solid	8015B NM	87034
LCS 880-87034/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87034
LCSD 880-87034/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87034
890-6962-A-21-C MS	Matrix Spike	Total/NA	Solid	8015B NM	87034
890-6962-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87034

#### Prep Batch: 87034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46629-1	H-1 (0-0.5)	Total/NA	Solid	8015NM Prep	
880-46629-2	H-2 (0-0.5)	Total/NA	Solid	8015NM Prep	
880-46629-3	H-3 (0-0.5)	Total/NA	Solid	8015NM Prep	
880-46629-4	H-4 (0-0.5)	Total/NA	Solid	8015NM Prep	
MB 880-87034/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87034/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87034/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6962-A-21-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6962-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

### **Analysis Batch: 87121**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
880-46629-1	H-1 (0-0.5)	Total/NA	Solid	8015 NM
880-46629-2	H-2 (0-0.5)	Total/NA	Solid	8015 NM
880-46629-3	H-3 (0-0.5)	Total/NA	Solid	8015 NM
880-46629-4	H-4 (0-0.5)	Total/NA	Solid	8015 NM

### HPLC/IC

### Leach Batch: 87050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46629-1	H-1 (0-0.5)	Soluble	Solid	DI Leach	
880-46629-2	H-2 (0-0.5)	Soluble	Solid	DI Leach	
880-46629-3	H-3 (0-0.5)	Soluble	Solid	DI Leach	
880-46629-4	H-4 (0-0.5)	Soluble	Solid	DI Leach	
MB 880-87050/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87050/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87050/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46628-A-61-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-46628-A-61-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

### **Analysis Batch: 87112**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46629-1	H-1 (0-0.5)	Soluble	Solid	300.0	87050
880-46629-2	H-2 (0-0.5)	Soluble	Solid	300.0	87050
880-46629-3	H-3 (0-0.5)	Soluble	Solid	300.0	87050
880-46629-4	H-4 (0-0.5)	Soluble	Solid	300.0	87050
MB 880-87050/1-A	Method Blank	Soluble	Solid	300.0	87050
LCS 880-87050/2-A	Lab Control Sample	Soluble	Solid	300.0	87050

**Eurofins Midland** 

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### **QC Association Summary**

Client: Carmona Resources Job ID: 880-46629-1
Project/Site: Markham #001 SDG: Eddy Co, NM

### **HPLC/IC** (Continued)

### **Analysis Batch: 87112 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-87050/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87050
880-46628-A-61-B MS	Matrix Spike	Soluble	Solid	300.0	87050
880-46628-A-61-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	87050

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Job ID: 880-46629-1

Client: Carmona Resources SDG: Eddy Co, NM Project/Site: Markham #001

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

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

Lab Sample ID: 880-46629-1

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	87082	07/30/24 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87107	07/31/24 14:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87168	07/31/24 14:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			87121	07/30/24 22:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/30/24 22:38	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87050	07/30/24 11:31	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87112	08/01/24 16:28	SMC	EET MID

Client Sample ID: H-2 (0-0.5) Lab Sample ID: 880-46629-2

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87082	07/30/24 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87107	07/31/24 14:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87168	07/31/24 14:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			87121	07/30/24 22:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/30/24 22:53	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87050	07/30/24 11:31	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87112	08/01/24 16:33	SMC	EET MID

Client Sample ID: H-3 (0-0.5) Lab Sample ID: 880-46629-3

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	87082	07/30/24 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87107	07/31/24 17:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87168	07/31/24 17:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			87121	07/30/24 23:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/30/24 23:09	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87050	07/30/24 11:31	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87112	08/01/24 16:38	SMC	EET MID

Client Sample ID: H-4 (0-0.5) Lab Sample ID: 880-46629-4

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	87036	07/30/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86998	07/31/24 03:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87168	07/31/24 03:35	SM	EET MID

**Eurofins Midland** 

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**Matrix: Solid** 

**Matrix: Solid** 

### **Lab Chronicle**

Client: Carmona Resources

Job ID: 880-46629-1

Project/Site: Markham #001

SDG: Eddy Co, NM

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

Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46629-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			87121	07/30/24 23:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/30/24 23:24	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87050	07/30/24 11:31	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87112	08/01/24 16:43	SMC	EET MID

Laboratory References:

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

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### **Accreditation/Certification Summary**

Client: Carmona Resources

Job ID: 880-46629-1

Project/Site: Markham #001

SDG: Eddy Co, NM

### **Laboratory: Eurofins Midland**

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	P	T104704400	06-30-25
• ,	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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### **Method Summary**

Client: Carmona Resources Project/Site: Markham #001 Job ID: 880-46629-1

SDG: Eddy Co, NM

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

#### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

### **Sample Summary**

Client: Carmona Resources Project/Site: Markham #001 Job ID: 880-46629-1

SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-46629-1	H-1 (0-0.5)	Solid	07/29/24 00:00	07/30/24 08:30
880-46629-2	H-2 (0-0.5)	Solid	07/29/24 00:00	07/30/24 08:30
880-46629-3	H-3 (0-0.5)	Solid	07/29/24 00:00	07/30/24 08:30
880-46629-4	H-4 (0-0.5)	Solid	07/29/24 00:00	07/30/24 08:30

Bill to: (r afferent)   Carmona Resources	ESSO Address: Company Name:  Email: ThickeA@Carmonaresources.com  ##6001  Turn Arounde Due Date: Normal  Och NM Due Date: Normal  Och Normal Tot's tarts the day received by the British Comp Control of Company Control of Control of Company Control of Control o		880-46629 Chain of Custody	Page1_ of _1_		Program: UST/PST   PRP   Brownfields   RRC     Uperfund		Reporting: Level III Level III DST/UST   TRRP   Level IV	Other	ANALYSIS REQUEST Preservative Codes	None: NO DI Water: H <sub>2</sub> O	Cool: Cool MeOH: Me		H₂S0₄: H₂ NaOH: Na		OLD NAHSO4 NABIS		Zn Acetate+NaOH; Zn NaOH+Ascorbic Acid; SAPC		Sample Comments							@carmonaresources.com	Relinquished by: (Signature) Received by: (Signature) Date/Time	
Company Name:  Company Name:  Address:  City, State ZIP:  City, St	ES :: 500 m #001 m #001 m #001 n #001	Signature)  Signature)  Strong Blank:  Treorgal Blank:  T			na Resources				com	ANA		(	ОЯМ				-		ı He	qT			-	-			irces.com and mcarmona		
Bill to: (if different)  Company Name: Address: City, State ZIP: City, State ZIP: City, State ZIP: City, State ZIP: TAT starts the day received by the lab, if received by 4:30pm  TAT starts the day received by the lab, if received by 4:30pm  Mo Wet Ice: Frature Reading: Frature	ES : 500 m #001 m #001 m #001 no 108 con 108 c	Signature)  Signature)  State of the state o	5		Carmo				onaresources.		Pres.			SI						# of Cont		Н					carmonaresou	Date/Ti	
Emai  Tul  Tar starts th lab, if rec  Mo Wet loe:  Transmer Reading:	ES : 500 m #001 m #001 m #001 no 108 con 108 c	Signature)  State of the state			Bill to: (if different)	Company Name:	Address:	City, State ZIP:	I: ThielkeA@Carm	m Around	Rush	Normal	e day received by the	served by 4:30pm		74	(1)	1			9	В	9	g			to cmoehring@	ture)	
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### **Login Sample Receipt Checklist**

Client: Carmona Resources

Job Number: 880-46629-1

SDG Number: Eddy Co, NM

List Source: Eurofins Midland

Login Number: 46629 List Number: 1

Creator: Vasquez, Julisa

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

Eurofins Midland

Released to Imaging: 11/14/2024 7:34:13 AM

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# **ANALYTICAL REPORT**

### PREPARED FOR

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

Generated 8/12/2024 2:27:34 PM Revision 1

### **JOB DESCRIPTION**

Markham #001 Eddy Co, NM

### **JOB NUMBER**

880-46630-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

## **Eurofins Midland**

### **Job Notes**

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

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

### **Authorization**

Generated 8/12/2024 2:27:34 PM Revision 1

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

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Client: Carmona Resources
Project/Site: Markham #001

Laboratory Job ID: 880-46630-1 SDG: Eddy Co, NM

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Eurofins Midland 8/12/2024 (Rev. 1)

### **Definitions/Glossary**

Client: Carmona Resources Job ID: 880-46630-1 Project/Site: Markham #001 SDG: Eddy Co, NM

### **Qualifiers**

### **GC VOA**

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

U Indicates the analyte was analyzed for but not detected.

#### GC Semi VOA

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

#### HPLC/IC

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

#### **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

**EDL** Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

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

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

**Practical Quantitation Limit** PQL

**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: Markham #001

Job ID: 880-46630-1

- Inject. Walkhaili #001

Job ID: 880-46630-1 Eurofins Midland

Job Narrative 880-46630-1

#### **REVISION**

The report being provided is a revision of the original report sent on 8/2/2024. The report (revision 1) is being revised due to Per client email, requestin samples BH-1, BH-2, and BH-3 @ 10' be ran.

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

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

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

#### Receipt

The samples were received on 7/30/2024 8:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

#### **GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-87045 and analytical batch 880-87075 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.

#### Diesel Range Organics

Method 8015MOD\_NM: The continuing calibration verification (CCV) associated with batch 880-87032 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported.

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-87035 and analytical batch 880-87032 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD\_NM: The continuing calibration verification (CCV) associated with batch 880-87595 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV have a qualifying CCV 10 samples before and 10 samples afterward, and they are thereby reported without issue.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (885-9143-A-28-B MS). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: BH-3 (10') (880-46630-31). Percent recoveries are based on the amount spiked.

Method 8015MOD\_NM: The continuing calibration verification (CCV) associated with batch 880-87745 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-87592 and analytical batch 880-87745 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate

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### **Case Narrative**

Client: Carmona Resources Job ID: 880-46630-1

Project: Markham #001

### Job ID: 880-46630-1 (Continued)

**Eurofins Midland** 

matrix performance.

Method 8015MOD\_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: BH-1 (10') (880-46630-7), BH-2 (10') (880-46630-19), (LCS 880-87592/2-A) and (LCSD 880-87592/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (880-46870-A-24-A), (880-46870-A-24-B MS) and (880-46870-A-24-C MSD). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

Method 300\_ORGFM\_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-87052 and analytical batch 880-87115 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.

The associated samples are: (820-14436-A-1-E), (820-14436-A-1-F MS) and (820-14436-A-1-G MSD).

Method 300\_ORGFM\_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-87052 and analytical batch 880-87115 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.

The associated samples are: BH-1 (0-1') (880-46630-1), BH-1 (2.0') (880-46630-2), BH-1 (3.0') (880-46630-3), (820-14436-A-11-C), (820-14436-A-11-G MS) and (820-14436-A-11-E MSD).

Method 300\_ORGFM\_28D - Soluble: The followings sample was analyzed at a dilution due to the Matrix Conductivity Threshold (MCT) of the instrument: BH-2 (6.0') (880-46630-17). The reporting limits have been adjusted accordingly.

Method 300\_ORGFM\_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-87054 and analytical batch 880-87128 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.

The associated samples are: BH-1 (4.0') (880-46630-4), BH-1 (6.0') (880-46630-5), BH-1 (8.0') (880-46630-6), BH-2 (0-1') (880-46630-13), BH-2 (2.0') (880-46630-14), BH-2 (3.0') (880-46630-15), BH-2 (4.0') (880-46630-16), BH-2 (6.0') (880-46630-17), BH-2 (8.0') (880-46630-18), BH-3 (0-1') (880-46630-25), (880-46630-A-4-E MS) and (880-46630-A-4-F MSD).

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-87054 and analytical batch 880-87128 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.

The associated samples are: BH-2 (6.0') (880-46630-17), BH-2 (8.0') (880-46630-18), BH-3 (2.0') (880-46630-26), BH-3 (3.0') (880-46630-27), BH-3 (4.0') (880-46630-28), BH-3 (6.0') (880-46630-29), BH-3 (8.0') (880-46630-30), (880-46630-A-26-D MS) and (880-46630-A-26-E MSD).

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-87786 and analytical batch 880-87827 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Job ID: 880-46630-1

Client: Carmona Resources Project/Site: Markham #001 SDG: Eddy Co, NM

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

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30 Lab Sample ID: 880-46630-1

**Matrix: Solid** 

Method: SW846 8021B - Vo		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202		0.00202	IVIDE	mg/Kg	_ =	07/30/24 11:17	07/30/24 17:48	1
									1
Toluene	<0.00202	U F1	0.00202		mg/Kg		07/30/24 11:17	07/30/24 17:48	1
Ethylbenzene	<0.00202	U F1	0.00202		mg/Kg		07/30/24 11:17	07/30/24 17:48	1
m-Xylene & p-Xylene	<0.00404	U F1	0.00404		mg/Kg		07/30/24 11:17	07/30/24 17:48	1
o-Xylene	<0.00202	U F1	0.00202		mg/Kg		07/30/24 11:17	07/30/24 17:48	1
Xylenes, Total	<0.00404	U F1	0.00404		mg/Kg		07/30/24 11:17	07/30/24 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				07/30/24 11:17	07/30/24 17:48	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/30/24 11:17	07/30/24 17:48	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/30/24 17:48	1
- Method: SW846 8015 NM -	Diesel Range	Organics (	DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/30/24 23:40	1
_									
Method: SW846 8015B NM	- Diesel Range	Organics	(DRO) (GC)						
Method: SW846 8015B NM Analyte	_	Organics Qualifier	(DRO) (GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Method. 344046 of 135 MM - D	nesei Kange	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		07/30/24 10:46	07/30/24 23:40	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		07/30/24 10:46	07/30/24 23:40	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/30/24 10:46	07/30/24 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				07/30/24 10:46	07/30/24 23:40	1
o-Terphenyl	91		70 - 130				07/30/24 10:46	07/30/24 23:40	1

Method: EPA 300.0 - Anions, lo	on Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030		25.0		mg/Kg			08/01/24 02:06	5

Client Sample ID: BH-1 (2.0') Lab Sample ID: 880-46630-2 Date Collected: 07/29/24 00:00 **Matrix: Solid** 

Date Received: 07/30/24 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 18:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 18:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 18:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/24 11:17	07/30/24 18:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 18:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/24 11:17	07/30/24 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				07/30/24 11:17	07/30/24 18:09	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/30/24 11:17	07/30/24 18:09	1

Client: Carmona Resources Job ID: 880-46630-1 Project/Site: Markham #001 SDG: Eddy Co, NM

Client Sample ID: BH-1 (2.0')

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-2

Lab Sample ID: 880-46630-3

**Matrix: Solid** 

**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			07/30/24 18:09	1

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

Analyte	Result Qualif	ier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 11	49.8	ma/Ka			07/30/24 23:55	

			-/ - /						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/30/24 10:46	07/30/24 23:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/30/24 10:46	07/30/24 23:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/30/24 10:46	07/30/24 23:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	DII Fac
1-Chlorooctane	99	70 - 130	07/30/24 10:46	07/30/24 23:55	1
o-Terphenyl	90	70 - 130	07/30/24 10:46	07/30/24 23:55	1

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	941		5.02		mg/Kg			08/01/24 02:12	1

Client Sample ID: BH-1 (3.0')

Released to Imaging: 11/14/2024 7:34:13 AM

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

Mothod: 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		07/30/24 11:17	07/30/24 18:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 18:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 18:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/24 11:17	07/30/24 18:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 18:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/24 11:17	07/30/24 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 130				07/30/24 11:17	07/30/24 18:29	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	DII Fac
4-Bromofluorobenzene (Surr)	106	70 - 130	07/30/24 11:17	07/30/24 18:29	1
1,4-Difluorobenzene (Surr)	98	70 - 130	07/30/24 11:17	07/30/24 18:29	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			07/30/24 18:29	1

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

		_			_	_		
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			07/31/24 00:26	1

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

motification of the following	Diocol Italige	, oi gaine	(5.10) (50)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/31/24 00:26	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/31/24 00:26	1
C10-C28)									

Job ID: 880-46630-1

SDG: Eddy Co, NM

Client Sample ID: BH-1 (3.0') Lab Sample ID: 880-46630-3 Date Collected: 07/29/24 00:00

**Matrix: Solid** 

Date I	Received:	07/30/24 08:30	

Client: Carmona Resources

Project/Site: Markham #001

Method: SW846 8015B NM - D	iesel Range	<b>Organics</b>	(DRO) (GC)	(Contin	nued)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/31/24 00:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				07/30/24 10:46	07/31/24 00:26	1
o-Terphenyl	95		70 - 130				07/30/24 10:46	07/31/24 00:26	1
_									

Method: EPA 300.0 - Anions, I	on Chromat	ography - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2440		25.2		mg/Kg			08/01/24 02:17	5

Client Sample ID: BH-1 (4.0') Date Collected: 07/29/24 00:00

Lab Sample ID: 880-46630-4

07/30/24 11:17 07/30/24 18:50

Matrix: Solid

Date Received: 07/30/24 08:30

1,4-Difluorobenzene (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 18:50	1
Toluene	< 0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 18:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 18:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/24 11:17	07/30/24 18:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 18:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/24 11:17	07/30/24 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				07/30/24 11:17	07/30/24 18:50	1

 Method: TAL SOP Total BTEX -	- Total BTE	X Calculati	ion					
Analyte		Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	ma/Ka			07/30/24 18:50	

70 - 130

Method: SW846 8015 NM - Die	sel Range (	Organics (	DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			07/31/24 00:41	1

TOTAL TPH 	<49.6	U	49.6		mg/Kg			07/31/24 00:41	1
 Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		07/30/24 10:46	07/31/24 00:41	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		07/30/24 10:46	07/31/24 00:41	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		07/30/24 10:46	07/31/24 00:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				07/30/24 10:46	07/31/24 00:41	1
o-Terphenyl	82		70 - 130				07/30/24 10:46	07/31/24 00:41	1

Method: EPA 300.0 - Anions, Ion	Chroma	tography - S	Soluble					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3750	F1	49.9	mg/Kg			08/02/24 00:00	10

Job ID: 880-46630-1

Client: Carmona Resources Project/Site: Markham #001 SDG: Eddy Co, NM

Client Sample ID: BH-1 (6.0')

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-5

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 19:11	1
Toluene	< 0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 19:11	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 19:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/24 11:17	07/30/24 19:11	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 19:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/24 11:17	07/30/24 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				07/30/24 11:17	07/30/24 19:11	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/24 11:17	07/30/24 19:11	1
- T,4-Dinaorobenzene (Garr)	37		10 - 130				07/30/24 11.17	07/30/24 19.11	,
Method: TAL SOP Total BTE		X Calculat					07/30/24 11.17	07/30/24 19.11	,
· · · · · · · · · · · · · · · · · · ·	X - Total BTE	X Calculat Qualifier		MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTE	X - Total BTE	Qualifier	ion	MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	X - Total BTE Result <0.00398	<b>Qualifier</b> U	ion RL 0.00398	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Di	X - Total BTE Result <0.00398	<b>Qualifier</b> U	ion RL 0.00398	MDL MDL		<u>D</u>		Analyzed	1
Method: TAL SOP Total BTE Analyte	X - Total BTE Result <0.00398	Qualifier  U  Organics ( Qualifier	ion RL 0.00398		mg/Kg		Prepared	Analyzed 07/30/24 19:11	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Di Analyte	X - Total BTE Result <0.00398 iesel Range Result <49.7	Qualifier U  Organics ( Qualifier U	RL   0.00398   DRO) (GC)   RL   49.7		mg/Kg		Prepared	Analyzed 07/30/24 19:11  Analyzed	1

			· / · /			_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		07/30/24 10:46	07/31/24 00:56	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		07/30/24 10:46	07/31/24 00:56	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/30/24 10:46	07/31/24 00:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				07/30/24 10:46	07/31/24 00:56	1
o-Terphenyl	83		70 - 130				07/30/24 10:46	07/31/24 00:56	1

Method: EPA 300.0 - Anions, Id	on Chromatography - S	Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	4300	50.2	mg/Kg			08/02/24 00:24	10	

Client Sample ID: BH-1 (8.0') Lab Sample ID: 880-46630-6 Date Collected: 07/29/24 00:00 **Matrix: Solid** 

Date Received: 07/30/24 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/30/24 11:17	07/30/24 19:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/30/24 11:17	07/30/24 19:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/30/24 11:17	07/30/24 19:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/30/24 11:17	07/30/24 19:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/30/24 11:17	07/30/24 19:31	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/30/24 11:17	07/30/24 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				07/30/24 11:17	07/30/24 19:31	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/24 11:17	07/30/24 19:31	1

C10-C28)

Released to Imaging: 11/14/2024 7:34:13 AM

Client: Carmona Resources Job ID: 880-46630-1 Project/Site: Markham #001 SDG: Eddy Co, NM

Client Sample ID: BH-1 (8.0') Lab Sample ID: 880-46630-6

Date Collected: 07/29/24 00:00 **Matrix: Solid** Date Received: 07/30/24 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/30/24 19:31	
	5 NM - Diesel Range (	•	ORO) (GC)						
		•	, , ,	MDI	Unit	n	Propared	Analyzed	Dil Fa
Method: SW846 801 Analyte		Organics (I	ORO) (GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fa

Method: SW846 8015B NM - E	Diesel Range	<ul><li>Organics</li></ul>	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/30/24 10:46	07/31/24 01:12	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/30/24 10:46	07/31/24 01:12	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/30/24 10:46	07/31/24 01:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				07/30/24 10:46	07/31/24 01:12	1
o-Terphenvl	83		70 - 130				07/30/24 10:46	07/31/24 01:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	1770		24.9		mg/Kg			08/02/24 00:32	5

Lab Sample ID: 880-46630-7 Client Sample ID: BH-1 (10') Date Collected: 07/29/24 00:00 **Matrix: Solid** Date Received: 07/30/24 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:12	08/06/24 20:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:12	08/06/24 20:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:12	08/06/24 20:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/06/24 11:12	08/06/24 20:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:12	08/06/24 20:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/06/24 11:12	08/06/24 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				08/06/24 11:12	08/06/24 20:43	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/06/24 11:12	08/06/24 20:43	1
Method: TAL SOP Total BT Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
		Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/06/24 20:43	Dil Fac
Analyte Total BTEX	Result < 0.00398	Qualifier U	RL 0.00398	MDL		<u>D</u>	Prepared		Dil Fac
Analyte	Result <0.00398  Diesel Range (	Qualifier U	RL 0.00398	MDL MDL	mg/Kg	<u>D</u>	Prepared Prepared		Dil Fac
Analyte Total BTEX  Method: SW846 8015 NM -	Result <0.00398  Diesel Range (	Qualifier  U  Organics ( Qualifier	RL 0.00398 DRO) (GC)		mg/Kg	<u> </u>		08/06/24 20:43	1
Analyte Total BTEX  Method: SW846 8015 NM - Analyte Total TPH	Result   <0.00398	Qualifier U  Organics ( Qualifier U	RL 0.00398 DRO) (GC) RL 50.0		mg/Kg	<u> </u>		08/06/24 20:43  Analyzed	1
Analyte Total BTEX  Method: SW846 8015 NM - Analyte	Result <0.00398  Diesel Range (Result <50.00000000000000000000000000000000000	Qualifier U  Organics ( Qualifier U	RL 0.00398 DRO) (GC) RL 50.0	MDL	mg/Kg	<u> </u>		08/06/24 20:43  Analyzed	1
Analyte Total BTEX  Method: SW846 8015 NM - Analyte Total TPH  Method: SW846 8015B NM	Result <0.00398  Diesel Range (Result <50.00000000000000000000000000000000000	Qualifier U  Organics ( Qualifier U  Organics Qualifier Qualifier	RL 0.00398 DRO) (GC) RL 50.0 (DRO) (GC)	MDL	mg/Kg  Unit mg/Kg	<u></u> <u>D</u>	Prepared	08/06/24 20:43  Analyzed 08/08/24 06:38	Dil Fac
Analyte Total BTEX  Method: SW846 8015 NM - Analyte Total TPH  Method: SW846 8015B NM Analyte  Gasoline Range Organics	Result <0.00398  Diesel Range (Result <50.00000000000000000000000000000000000	Qualifier U  Organics ( Qualifier U  Organics Qualifier U	RL 0.00398 DRO) (GC) RL 50.0 (DRO) (GC) RL	MDL	mg/Kg  Unit mg/Kg  Unit	<u></u> <u>D</u>	Prepared Prepared	08/06/24 20:43  Analyzed  08/08/24 06:38  Analyzed	Dil Fac

Job ID: 880-46630-1

Client: Carmona Resources Project/Site: Markham #001 SDG: Eddy Co, NM

Client Sample ID: BH-1 (10') Lab Sample ID: 880-46630-7

Date Collected: 07/29/24 00:00 **Matrix: Solid** Date Received: 07/30/24 08:30

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/06/24 08:20	08/08/24 06:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130			08/06/24 08:20	08/08/24 06:38	1
o-Terphenyl	133	S1+	70 - 130			08/06/24 08:20	08/08/24 06:38	1

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chloride 1030 F1 24.8 mg/Kg 08/08/24 17:59

Client Sample ID: BH-2 (0-1') Lab Sample ID: 880-46630-13 Date Collected: 07/29/24 00:00 **Matrix: Solid** 

Date Received: 07/30/24 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 19:52	
Toluene	< 0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 19:52	
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 19:52	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/24 11:17	07/30/24 19:52	
o-Xylene	< 0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 19:52	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/24 11:17	07/30/24 19:52	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	105		70 - 130				07/30/24 11:17	07/30/24 19:52	
1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/24 11:17	07/30/24 19:52	
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/30/24 19:52	
	_	•				_			
Method: SW846 8015 NM - Di	_	•				_			
Method: SW846 8015 NM - Die Analyte Total TPH	_	Qualifier	DRO) (GC) RL 49.8	MDL		<u>D</u>	Prepared	Analyzed 07/31/24 01:28	Dil Fa
Analyte	Result	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared		
Analyte	<b>Result</b> <49.8	Qualifier U	<b>RL</b> 49.8	MDL		<u>D</u>	Prepared		Dil Fa
Analyte Total TPH	Result <49.8	Qualifier U	<b>RL</b> 49.8	MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total TPH  Method: SW846 8015B NM - Description  Analyte  Gasoline Range Organics	Result <49.8	Qualifier U Organics Qualifier	RL 49.8 (DRO) (GC)		mg/Kg	_ =	Prepared	07/31/24 01:28	
Analyte Total TPH  Method: SW846 8015B NM - DANALYTE  Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 Diesel Range Result	Qualifier U  Organics Qualifier U	49.8 (DRO) (GC) RL		mg/Kg Unit	_ =	Prepared 07/30/24 10:46	07/31/24 01:28  Analyzed	
Analyte Total TPH  Method: SW846 8015B NM - DANALYTE  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8  Diesel Range Result <49.8	Qualifier U  Organics Qualifier U	RL 49.8  (DRO) (GC) RL 49.8		mg/Kg  Unit mg/Kg	_ =	Prepared 07/30/24 10:46 07/30/24 10:46	07/31/24 01:28  Analyzed 07/31/24 01:28	
Analyte Total TPH  Method: SW846 8015B NM - December 2015 Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8  Diesel Range Result <49.8  <49.8	Qualifier U  Organics Qualifier U  U	RL 49.8  (DRO) (GC) RL 49.8  49.8		mg/Kg  Unit mg/Kg  mg/Kg	_ =	Prepared 07/30/24 10:46 07/30/24 10:46	07/31/24 01:28  Analyzed 07/31/24 01:28  07/31/24 01:28	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result   <49.8	Qualifier U  Organics Qualifier U  U	RL 49.8  (DRO) (GC) RL 49.8  49.8  49.8		mg/Kg  Unit mg/Kg  mg/Kg	_ =	Prepared 07/30/24 10:46 07/30/24 10:46 07/30/24 10:46	07/31/24 01:28  Analyzed 07/31/24 01:28  07/31/24 01:28  07/31/24 01:28	
Analyte Total TPH  Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	Result <49.8  Diesel Range Result <49.8  <49.8  <49.8  %Recovery	Qualifier U  Organics Qualifier U  U	RL 49.8  (DRO) (GC) RL 49.8  49.8  49.8  49.8  Limits		mg/Kg  Unit mg/Kg  mg/Kg	_ =	Prepared 07/30/24 10:46 07/30/24 10:46 07/30/24 10:46  Prepared 07/30/24 10:46	07/31/24 01:28  Analyzed 07/31/24 01:28  07/31/24 01:28  07/31/24 01:28  Analyzed	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <49.8	Qualifier U  Organics Qualifier U  U  U  Qualifier	RL 49.8  (DRO) (GC) RL 49.8  49.8  49.8  49.8  Limits 70 - 130 70 - 130		mg/Kg  Unit mg/Kg  mg/Kg	_ =	Prepared 07/30/24 10:46 07/30/24 10:46 07/30/24 10:46  Prepared 07/30/24 10:46	07/31/24 01:28  Analyzed 07/31/24 01:28  07/31/24 01:28  07/31/24 01:28  Analyzed 07/31/24 01:28	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result   <49.8	Qualifier U  Organics Qualifier U  U  U  Qualifier	RL 49.8  (DRO) (GC) RL 49.8  49.8  49.8  49.8  Limits 70 - 130 70 - 130		mg/Kg  Unit mg/Kg mg/Kg mg/Kg	_ =	Prepared 07/30/24 10:46 07/30/24 10:46 07/30/24 10:46  Prepared 07/30/24 10:46	07/31/24 01:28  Analyzed 07/31/24 01:28  07/31/24 01:28  07/31/24 01:28  Analyzed 07/31/24 01:28	Dil Fa

Job ID: 880-46630-1 SDG: Eddy Co, NM

Project/Site: Markham #001 SDG: Eddy Co, NM

Client Sample ID: BH-2 (2.0') Lab Sample ID: 880-46630-14

Matrix: Solid

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

Client: Carmona Resources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 20:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 20:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 20:12	1
m-Xylene & p-Xylene	< 0.00399	U	0.00399		mg/Kg		07/30/24 11:17	07/30/24 20:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 20:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/24 11:17	07/30/24 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				07/30/24 11:17	07/30/24 20:12	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/30/24 11:17	07/30/24 20:12	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	tion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/30/24 20:12	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)AnalyteResult TPHQualifierRL QualifierMDL mg/KgUnit mg/KgD Prepared Total TPHAnalyzed TOTAL TPHDil Fac Total TPH

Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/30/24 10:46	07/31/24 01:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/30/24 10:46	07/31/24 01:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/30/24 10:46	07/31/24 01:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				07/30/24 10:46	07/31/24 01:43	1
o-Terphenyl	93		70 - 130				07/30/24 10:46	07/31/24 01:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
	Chloride	566		4.98		mg/Kg			08/02/24 00:48	1

Client Sample ID: BH-2 (3.0')

Date Collected: 07/29/24 00:00

Lab Sample ID: 880-46630-15

Matrix: Solid

Date Received: 07/30/24 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 20:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 20:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 20:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/24 11:17	07/30/24 20:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 20:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/24 11:17	07/30/24 20:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				07/30/24 11:17	07/30/24 20:33	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/30/24 11:17	07/30/24 20:33	1

**Eurofins Midland** 

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Client: Carmona Resources Job ID: 880-46630-1 Project/Site: Markham #001 SDG: Eddy Co, NM

Client Sample ID: BH-2 (3.0')

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-15

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			07/30/24 20:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		ma/Ka			07/31/24 01:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/31/24 01:58	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/31/24 01:58	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/31/24 01:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	107	70 - 130
o-Terphenyl	96	70 - 130

Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1010		25.1		mg/Kg			08/02/24 01:12	5

Client Sample ID: BH-2 (4.0')

Date Collected: 07/29/24 00:00

Date Received: 07/30/24 08:30

1,4-Difluorobenzene (Surr)

### Lab Sample ID: 880-46630-16

07/30/24 10:46 07/31/24 01:58 07/30/24 10:46 07/31/24 01:58

**Matrix: Solid** 

l	Method: SW846 8021B -	Volatile Organic Compounds (	GC)
ı	Analyta	Popult Qualifier	1

Analyte	Result	Qualifier	RL	MDL Unit	t	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/	Kg	_	07/30/24 11:17	07/30/24 20:53	1
Toluene	<0.00199	U	0.00199	mg/	Kg		07/30/24 11:17	07/30/24 20:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/	Kg		07/30/24 11:17	07/30/24 20:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/	Kg		07/30/24 11:17	07/30/24 20:53	1
o-Xylene	<0.00199	U	0.00199	mg/	Kg		07/30/24 11:17	07/30/24 20:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/	Kg		07/30/24 11:17	07/30/24 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				07/30/24 11:17	07/30/24 20:53	1

Mothod: TAI	SOP Total RTFX.	Total RTEY	`alculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	ma/Ka			07/30/24 20:53	1

70 - 130

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

Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9		mg/Kg			07/30/24 21:04	1	

Method: 544846 8015B NW - L	Jiesei 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		07/30/24 10:55	07/30/24 21:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		07/30/24 10:55	07/30/24 21:04	1

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07/30/24 11:17 07/30/24 20:53

Job ID: 880-46630-1

Client: Carmona Resources Project/Site: Markham #001 SDG: Eddy Co, NM

Client Sample ID: BH-2 (4.0') Lab Sample ID: 880-46630-16 Date Collected: 07/29/24 00:00

**Matrix: Solid** 

Date Received: 07/30/24 08:30

Method: SW846 8015B NM - I	Diesel Range	<b>Organics</b>	(DRO) (GC)	(Contin	ued)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	i	mg/Kg		07/30/24 10:55	07/30/24 21:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				07/30/24 10:55	07/30/24 21:04	1
								07/00/04 04 04	
o-Terphenyl	108		70 - 130				07/30/24 10:55	07/30/24 21:04	7

Method: EPA 300.0 - Anions, Ic	on Chromato	ography - S	oluble						
Analyte	Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430		24.8		mg/Kg			08/02/24 01:19	5

Lab Sample ID: 880-46630-17 Client Sample ID: BH-2 (6.0') Date Collected: 07/29/24 00:00 **Matrix: Solid** 

Date Received: 07/30/24 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 22:28	1
Toluene	< 0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 22:28	1
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 22:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/24 11:17	07/30/24 22:28	1
o-Xylene	< 0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 22:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/24 11:17	07/30/24 22:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				07/30/24 11:17	07/30/24 22:28	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/24 11:17	07/30/24 22:28	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/30/24 22:28	1
Method: SW846 8015 NM - Did Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/24 21:51	1
Method: SW846 8015B NM - D	Diesel Range	o Organics	(DRO) (GC)						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/30/24 10:55	07/30/24 21:51	1
(GRO)-C6-C10									
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		07/30/24 10:55	07/30/24 21:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/24 10:55	07/30/24 21:51	1
,			Limits				Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	LIIIIII				- 1	,a.y = 0 a	
	%Recovery	Qualifier	70 - 130				07/30/24 10:55	07/30/24 21:51	1
Surrogate 1-Chlorooctane o-Terphenyl		Qualifier					07/30/24 10:55		1
1-Chlorooctane	101 100		70 - 130 70 - 130				07/30/24 10:55	07/30/24 21:51	•

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08/02/24 12:46

mg/Kg

3340

Chloride

Client: Carmona Resources Job ID: 880-46630-1 Project/Site: Markham #001 SDG: Eddy Co, NM

Client Sample ID: BH-2 (8.0') Lab Sample ID: 880-46630-18

Date Collected: 07/29/24 00:00 Matrix: Solid Date Received: 07/30/24 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 22:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 22:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 22:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/24 11:17	07/30/24 22:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 22:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/24 11:17	07/30/24 22:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				07/30/24 11:17	07/30/24 22:48	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/30/24 11:17	07/30/24 22:48	1
- Method: TAL SOP Total BTEX	- Total BTE	X Calculat	tion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/30/24 22:48	1
- Method: SW846 8015 NM - Did	esel Range	Organics (	DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/24 22:07	1
- Method: SW846 8015B NM - D	Diesel Range	e 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		07/30/24 10:55	07/30/24 22:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		07/30/24 10:55	07/30/24 22:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/30/24 10:55	07/30/24 22:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				07/30/24 10:55	07/30/24 22:07	1
o-Terphenyl	105		70 - 130				07/30/24 10:55	07/30/24 22:07	1
Method: EPA 300.0 - Anions,	lon Chroma	tography -	Soluble						
Analyte		Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-2 (10') Lab Sample ID: 880-46630-19 Date Collected: 07/29/24 00:00 **Matrix: Solid** 

25.2

mg/Kg

2370

Date Received: 07/30/24 08:30

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:12	08/06/24 21:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:12	08/06/24 21:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:12	08/06/24 21:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/24 11:12	08/06/24 21:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:12	08/06/24 21:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/06/24 11:12	08/06/24 21:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				08/06/24 11:12	08/06/24 21:03	1
1,4-Difluorobenzene (Surr)	94		70 - 130				08/06/24 11:12	08/06/24 21:03	1

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08/02/24 12:54

### **Client Sample Results**

Client: Carmona Resources Job ID: 880-46630-1 Project/Site: Markham #001 SDG: Eddy Co, NM

Client Sample ID: BH-2 (10')

Lab Sample ID: 880-46630-19 Date Collected: 07/29/24 00:00

**Matrix: Solid** Date Received: 07/30/24 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/06/24 21:03	1
Method: SW846 8015 NM - Di	esel Range (	Organics (	DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/08/24 06:55	1
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
A a b . d a	D 14	0 1:6:	·	MDI	1114	_	B	A II	D'1 E
Gasoline Range Organics	<b>Result</b> <49.9		RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 08/06/24 08:20		Dil Fac
Gasoline Range Organics (GRO)-C6-C10		U		MDL	mg/Kg	<u>D</u>		08/08/24 06:55	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	MDL		<u>D</u>	08/06/24 08:20	08/08/24 06:55	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U *+	49.9	MDL	mg/Kg	<u>D</u>	08/06/24 08:20	08/08/24 06:55 08/08/24 06:55	Dil Fac 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 <49.9	U *+	49.9	MDL	mg/Kg	<u> </u>	08/06/24 08:20 08/06/24 08:20	08/08/24 06:55 08/08/24 06:55	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<49.9 <49.9 <49.9	U *+ U Qualifier	49.9 49.9 49.9	MDL	mg/Kg	<u> </u>	08/06/24 08:20 08/06/24 08:20 08/06/24 08:20	08/08/24 06:55 08/08/24 06:55 08/08/24 06:55 Analyzed	Dil Fac  1  1  Dil Fac

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Chloride 202 4.98 08/08/24 18:15 mg/Kg

Client Sample ID: BH-3 (0-1') Lab Sample ID: 880-46630-25 Date Collected: 07/29/24 00:00 **Matrix: Solid** 

Date Received: 07/30/24 08:30

Released to Imaging: 11/14/2024 7:34:13 AM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 23:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 23:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 23:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/24 11:17	07/30/24 23:08	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 23:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/24 11:17	07/30/24 23:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				07/30/24 11:17	07/30/24 23:08	1
1,4-Difluorobenzene (Surr)	96		70 100				07/20/04 44:47	07/30/24 23:08	1
T,4-Dilludroberizerie (Surr) : Method: TAL SOP Total BT		X Calculat	70 - 130 ion				07/30/24 11:17	07/30/24 23.06	ı
Method: TAL SOP Total BT	EX - Total BTE	X Calculat Qualifier		MDL	Unit	D	Prepared	Analyzed	Dil Fac
	EX - Total BTE	Qualifier	ion	MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX	EX - Total BTE Result <0.00398	<b>Qualifier</b> U	ion RL 0.00398	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM -	EX - Total BTE Result <0.00398  Diesel Range 0	<b>Qualifier</b> U	ion RL 0.00398			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM - Analyte	EX - Total BTE Result <0.00398  Diesel Range 0	Qualifier  U  Organics ( Qualifier	ion RL 0.00398		mg/Kg	=	Prepared	Analyzed 07/30/24 23:08	1
Method: TAL SOP Total BT Analyte Total BTEX  Method: SW846 8015 NM - Analyte Total TPH	EX - Total BTE Result <0.00398  Diesel Range Result <49.6	Qualifier U  Organics ( Qualifier U	RL   0.00398   DRO) (GC)   RL   49.6		mg/Kg Unit	=	Prepared	Analyzed 07/30/24 23:08 Analyzed	1
Method: TAL SOP Total BT Analyte Total BTEX  Method: SW846 8015 NM - Analyte Total TPH  Method: SW846 8015B NM	EX - Total BTE Result <0.00398  Diesel Range Result <49.6  - Diesel Range	Qualifier U  Organics ( Qualifier U	RL   0.00398   DRO) (GC)   RL   49.6		mg/Kg  Unit mg/Kg	=	Prepared	Analyzed 07/30/24 23:08 Analyzed	Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM - Analyte	EX - Total BTE Result <0.00398  Diesel Range Result <49.6  - Diesel Range	Qualifier U  Organics ( Qualifier U  Organics Qualifier Qualifier	DRO) (GC) RL 49.6 (DRO) (GC)	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 07/30/24 23:08  Analyzed 07/30/24 22:22	1

Job ID: 880-46630-1

Client: Carmona Resources Project/Site: Markham #001

SDG: Eddy Co, NM

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

Lab Sample ID: 880-46630-25

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

Matrix: Solid

	_	Qualifier	S (DRO) (GC) RL	(Continum MDL	,	D	Prepared	Analyzed	Dil Fa
Analyte Oil Range Organics (Over C28-C36)	<49.6		49.6	WIDE	mg/Kg	=		07/30/24 22:22	Dilla
Strawa grafa	9/ Daggyamy	Ovalifian	l imaida				Dramarad	Amalumad	D:/ Fa
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	101		70 - 130				07/30/24 10:55		
o-Terphenyl	101		70 - 130				07/30/24 10:55	07/30/24 22:22	
Method: EPA 300.0 - Anions,						_			5
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fa
Chloride	153		5.02		mg/Kg			08/02/24 01:43	
Client Sample ID: BH-3 (2	.0')					La	b Sample	ID: 880-466	30-2
Pate Collected: 07/29/24 00:00 Pate Received: 07/30/24 08:30								Matrix	: Soli
Method: SW846 8021B - Volat	tilo Organio	Compoun	de (CC)						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202		0.00202		mg/Kg		07/30/24 11:17	07/30/24 23:29	
Toluene	<0.00202	U	0.00202		mg/Kg		07/30/24 11:17	07/30/24 23:29	
Ethylbenzene	<0.00202		0.00202		mg/Kg		07/30/24 11:17	07/30/24 23:29	
m-Xylene & p-Xylene	<0.00404		0.00404		mg/Kg			07/30/24 23:29	
o-Xylene	<0.00202		0.00202		mg/Kg		07/30/24 11:17		
Xylenes, Total	< 0.00404		0.00404		mg/Kg			07/30/24 23:29	
Survey and to	0/ <b>D</b> agovamv	Ovelifier	Limits		0 0		Dramarad	Amalumad	Dil Fa
Surrogate	%Recovery	Qualifier	70 - 130				Prepared 07/20/24 11:17	Analyzed 07/30/24 23:29	
	110		10 - 130				07/30/24 11.17	U1/3U/24 Z3.Z9	
4-Bromofluorobenzene (Surr)	07						07/30/24 11:17		
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/24 11:17	07/30/24 23:29	
` '		X Calcula	70 - 130				07/30/24 11:17		
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte	C - Total BTE Result	Qualifier	70 - 130	MDL	Unit	<u>D</u>	07/30/24 11:17 Prepared		
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte	C - Total BTE	Qualifier	70 - 130 tion	MDL	Unit mg/Kg	<u>D</u>		07/30/24 23:29	Dil Fa
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte  Total BTEX	C - Total BTE Result <0.00404	Qualifier U	70 - 130 tion RL 0.00404	MDL		<u>D</u>		07/30/24 23:29 Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte  Total BTEX  Method: SW846 8015 NM - Die	Result <0.00404	Qualifier U	70 - 130 tion RL 0.00404			<u>D</u>		07/30/24 23:29 Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte  Total BTEX  Method: SW846 8015 NM - Die	Result <0.00404	Qualifier  U  Organics ( Qualifier	70 - 130 tion RL 0.00404		mg/Kg		Prepared	07/30/24 23:29  Analyzed  07/30/24 23:29	Dil Fa
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Dic Analyte Total TPH	Result C - Total BTE Result <0.00404 esel Range Result <49.8	Qualifier U  Organics ( Qualifier U	70 - 130 tion RL 0.00404 (DRO) (GC) RL 49.8		mg/Kg		Prepared	07/30/24 23:29  Analyzed  07/30/24 23:29  Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte  Total BTEX  Method: SW846 8015 NM - Dic Analyte  Total TPH  Method: SW846 8015B NM - Dic Method:	C - Total BTE Result <0.00404 esel Range ( Result <49.8 Diesel Range	Qualifier U  Organics ( Qualifier U  Organics ( Organics (	70 - 130  tion RL 0.00404  (DRO) (GC) RL 49.8  S (DRO) (GC)	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	07/30/24 23:29  Analyzed 07/30/24 23:29  Analyzed 07/30/24 22:38	Dil Fa
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte  Total BTEX  Method: SW846 8015 NM - Dic Analyte  Total TPH  Method: SW846 8015B NM - Dic Analyte	C - Total BTE Result <0.00404 esel Range Result <49.8 Diesel Range Result	Qualifier U  Organics ( Qualifier U  Organics ( Qualifier U	70 - 130  tion RL 0.00404  (DRO) (GC) RL 49.8  6 (DRO) (GC) RL		mg/Kg  Unit mg/Kg  Unit		Prepared  Prepared	Analyzed 07/30/24 23:29  Analyzed 07/30/24 23:29  Analyzed 07/30/24 22:38  Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte  Total BTEX  Method: SW846 8015 NM - Dic Analyte  Total TPH  Method: SW846 8015B NM - Dic Analyte Gasoline Range Organics	C - Total BTE Result <0.00404  esel Range Result <49.8  Diesel Range Result	Qualifier U  Organics ( Qualifier U  Organics ( Organics (	70 - 130  tion RL 0.00404  (DRO) (GC) RL 49.8  S (DRO) (GC)	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared  Prepared	07/30/24 23:29  Analyzed 07/30/24 23:29  Analyzed 07/30/24 22:38	Dil Fa
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Dic Analyte Total TPH  Method: SW846 8015B NM - Dic Analyte Gasoline Range Organics (GRO)-C6-C10	C - Total BTE Result <0.00404 esel Range Result <49.8 Diesel Range Result	Qualifier U  Organics ( Qualifier U  Organics Qualifier U	70 - 130  tion RL 0.00404  (DRO) (GC) RL 49.8  6 (DRO) (GC) RL	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared 07/30/24 10:55	Analyzed 07/30/24 23:29  Analyzed 07/30/24 23:29  Analyzed 07/30/24 22:38  Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte  Total BTEX  Method: SW846 8015 NM - Dic Analyte  Total TPH  Method: SW846 8015B NM - Dic Analyte Gasoline Range Organics	C - Total BTE Result <0.00404  esel Range ( Result <49.8  Diesel Range Result <49.8	Qualifier U  Organics ( Qualifier U  Organics Qualifier U	70 - 130  tion RL 0.00404  (DRO) (GC) RL 49.8  6 (DRO) (GC) RL 49.8	MDL	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared Prepared 07/30/24 10:55	07/30/24 23:29  Analyzed 07/30/24 23:29  Analyzed 07/30/24 22:38  Analyzed 07/30/24 22:38	Dil Fa
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Did Analyte Total TPH  Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	C - Total BTE Result <0.00404  esel Range ( Result <49.8  Diesel Range Result <49.8	Qualifier U  Organics ( Qualifier U  Organics Qualifier U  U  **	70 - 130  tion RL 0.00404  (DRO) (GC) RL 49.8  6 (DRO) (GC) RL 49.8	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg	<u>D</u>	Prepared  Prepared  07/30/24 10:55  07/30/24 10:55	07/30/24 23:29  Analyzed 07/30/24 23:29  Analyzed 07/30/24 22:38  Analyzed 07/30/24 22:38	Dil Fa
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte  Total BTEX  Method: SW846 8015 NM - Did Analyte  Total TPH  Method: SW846 8015B NM - E Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result C-Total BTE Result Result Result 49.8 Diesel Range Result 49.8 49.8	Qualifier U  Organics ( Qualifier U  Organics Qualifier U  U  V*+	70 - 130  tion RL 0.00404  (DRO) (GC) RL 49.8  6 (DRO) (GC) RL 49.8  49.8	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg  mg/Kg	<u>D</u>	Prepared  Prepared  07/30/24 10:55  07/30/24 10:55	07/30/24 23:29  Analyzed 07/30/24 23:29  Analyzed 07/30/24 22:38  Analyzed 07/30/24 22:38  07/30/24 22:38	Dil Fa
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Did Analyte Total TPH  Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	C - Total BTE	Qualifier U  Organics ( Qualifier U  Organics Qualifier U  U  V*+	70 - 130  tion  RL  0.00404  (DRO) (GC)  RL  49.8  6 (DRO) (GC)  RL  49.8  49.8  49.8	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg  mg/Kg	<u>D</u>	Prepared  Prepared  07/30/24 10:55  07/30/24 10:55  Prepared	07/30/24 23:29  Analyzed 07/30/24 23:29  Analyzed 07/30/24 22:38  Analyzed 07/30/24 22:38  07/30/24 22:38	Dil Fa

**Eurofins Midland** 

Dil Fac

Analyzed

08/02/24 01:51

RL

4.98

**MDL** Unit

mg/Kg

Prepared

Analyte

Chloride

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

453 F1

Client: Carmona Resources Job ID: 880-46630-1 Project/Site: Markham #001 SDG: Eddy Co, NM

Client Sample ID: BH-3 (3.0') Lab Sample ID: 880-46630-27

Date Collected: 07/29/24 00:00 **Matrix: Solid** Date Received: 07/30/24 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 23:49	
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 23:49	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 23:49	•
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/24 11:17	07/30/24 23:49	· · · · · · · · · ·
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 23:49	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/24 11:17	07/30/24 23:49	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	102		70 - 130				07/30/24 11:17	07/30/24 23:49	
1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/24 11:17	07/30/24 23:49	•
Method: TAL SOP Total BTEX	( - Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/30/24 23:49	1
Method: SW846 8015 NM - Di	anal Dames (	<b>.</b>							
		i irdanice i	DROV(GC)						
	_	Organics ( Qualifier	DRO) (GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	_	Qualifier	, , ,	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/30/24 22:53	
Analyte Total TPH	<b>Result</b> <49.9	Qualifier U	<b>RL</b> 49.9	MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - [	Result <49.9	Qualifier U	<b>RL</b> 49.9			<u>D</u>	Prepared Prepared		
Analyte Total TPH  Method: SW846 8015B NM - I Analyte Gasoline Range Organics	Result <49.9	Qualifier U  Organics Qualifier	RL 49.9 (DRO) (GC)		mg/Kg			07/30/24 22:53	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 Diesel Range Result	Qualifier U  Organics Qualifier U	49.9 (DRO) (GC)		mg/Kg		Prepared 07/30/24 10:55	07/30/24 22:53  Analyzed	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - I Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9  Diesel Range Result <49.9	Qualifier U  Organics Qualifier U  U *+	RL 49.9 (DRO) (GC) RL 49.9		mg/Kg  Unit mg/Kg		Prepared 07/30/24 10:55 07/30/24 10:55	07/30/24 22:53  Analyzed 07/30/24 22:53	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - I Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <49.9  Diesel Range Result <49.9 <a href="#">&lt;49.9</a> <a href="#">&lt;49.9</a> <a href="#">&lt;49.9</a>	Qualifier U  Organics Qualifier U  U *+	RL 49.9 (DRO) (GC) RL 49.9		mg/Kg  Unit mg/Kg mg/Kg		Prepared 07/30/24 10:55 07/30/24 10:55	07/30/24 22:53  Analyzed 07/30/24 22:53  07/30/24 22:53	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - I Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	Result	Qualifier U  Organics Qualifier U  U *+	RL 49.9 (GC) RL 49.9 49.9		mg/Kg  Unit mg/Kg mg/Kg		Prepared 07/30/24 10:55 07/30/24 10:55 07/30/24 10:55 Prepared	07/30/24 22:53  Analyzed 07/30/24 22:53 07/30/24 22:53 07/30/24 22:53 Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result <49.9  Diesel Range Result <49.9  <49.9  <49.9  %Recovery	Qualifier U  Organics Qualifier U  U *+	RL 49.9  (DRO) (GC) RL 49.9  49.9  49.9  Limits		mg/Kg  Unit mg/Kg mg/Kg		Prepared 07/30/24 10:55 07/30/24 10:55 07/30/24 10:55 Prepared 07/30/24 10:55	07/30/24 22:53  Analyzed 07/30/24 22:53  07/30/24 22:53  07/30/24 22:53  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result   <49.9	Qualifier U  Organics Qualifier U  U *+  U  Qualifier	RL 49.9  (DRO) (GC) RL 49.9  49.9  49.9  Limits 70 - 130 70 - 130		mg/Kg  Unit mg/Kg mg/Kg		Prepared 07/30/24 10:55 07/30/24 10:55 07/30/24 10:55 Prepared 07/30/24 10:55	07/30/24 22:53  Analyzed 07/30/24 22:53  07/30/24 22:53  07/30/24 22:53  Analyzed 07/30/24 22:53	
Analyte Total TPH  Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl  Method: EPA 300.0 - Anions, Analyte	Result   <49.9	Qualifier U  Organics Qualifier U  U *+  U  Qualifier	RL 49.9  (DRO) (GC) RL 49.9  49.9  49.9  Limits 70 - 130 70 - 130	MDL	mg/Kg  Unit mg/Kg mg/Kg		Prepared 07/30/24 10:55 07/30/24 10:55 07/30/24 10:55 Prepared 07/30/24 10:55	07/30/24 22:53  Analyzed 07/30/24 22:53  07/30/24 22:53  07/30/24 22:53  Analyzed 07/30/24 22:53	Dil Fac

Client Sample ID: BH-3 (4.0') Lab Sample ID: 880-46630-28 Date Collected: 07/29/24 00:00 **Matrix: Solid** 

Date Received: 07/30/24 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/31/24 00:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/31/24 00:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/31/24 00:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/24 11:17	07/31/24 00:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/31/24 00:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/24 11:17	07/31/24 00:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				07/30/24 11:17	07/31/24 00:10	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/24 11:17	07/31/24 00:10	1

Client: Carmona Resources Job ID: 880-46630-1 Project/Site: Markham #001 SDG: Eddy Co, NM

Client Sample ID: BH-3 (4.0') Lab Sample ID: 880-46630-28

Date Collected: 07/29/24 00:00 **Matrix: Solid** Date Received: 07/30/24 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/31/24 00:10	1
Method: SW846 8015 NM - Di	esel Range (	Organics (	DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/30/24 23:09	1
Gasoline Range Organics	<49.7		49.7		mg/Kg		07/30/24 10:55	07/30/24 23:09	·
Method: SW846 8015B NM - D Analyte	_	Qualifier	(DRO) (GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
(GRO)-C6-C10					mg/Kg		07/30/24 10:55	07/30/24 23:09	1
Diesel Range Organics (Over	<49.7	U *+	49.7		9,9				
Diesel Range Organics (Over C10-C28)	<49.7 <49.7		49.7 49.7		mg/Kg		07/30/24 10:55	07/30/24 23:09	1
Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)		U			0 0		07/30/24 10:55  Prepared	07/30/24 23:09  Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	<49.7	U	49.7		0 0			Analyzed	Dil Fac

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit Prepared Analyzed Chloride 1070 25.1 08/02/24 02:23 mg/Kg

Client Sample ID: BH-3 (6.0') Lab Sample ID: 880-46630-29 Date Collected: 07/29/24 00:00 **Matrix: Solid** 

Date Received: 07/30/24 08:30

Released to Imaging: 11/14/2024 7:34:13 AM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/31/24 00:30	1
Toluene	< 0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/31/24 00:30	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/31/24 00:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/24 11:17	07/31/24 00:30	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/31/24 00:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/24 11:17	07/31/24 00:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				07/30/24 11:17	07/31/24 00:30	
1,4-Difluorobenzene (Surr) :   Method: TAL SOP Total BT								07/31/24 00:30	,
·	EX - Total BTE	X Calculat Qualifier		MDL	Unit	D	07/30/24 11:17  Prepared	07/31/24 00:30 Analyzed	•
Method: TAL SOP Total BT	EX - Total BTE	Qualifier	ion	MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX	TEX - Total BTE Result <0.00398	Qualifier U	ion RL 0.00398	MDL		<u>D</u>		Analyzed	•
Method: TAL SOP Total BT Analyte	TEX - Total BTE Result <0.00398  Diesel Range 0	Qualifier U	ion RL 0.00398	MDL MDL	mg/Kg	<u>D</u>		Analyzed	•
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM -	TEX - Total BTE Result <0.00398  Diesel Range 0	Qualifier  U  Organics ( Qualifier	RL 0.00398 —		mg/Kg	— <del>-</del>	Prepared	Analyzed 07/31/24 00:30	Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX  Method: SW846 8015 NM - Analyte  Total TPH	EX - Total BTE Result <0.00398  Diesel Range ( Result <50.0	Qualifier U  Organics ( Qualifier U	DRO) (GC) RL 50.0		mg/Kg Unit	— <del>-</del>	Prepared	Analyzed 07/31/24 00:30 Analyzed	Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX  Method: SW846 8015 NM - Analyte Total TPH  Method: SW846 8015B NM	EX - Total BTE Result <0.00398  Diesel Range Result <50.0  - Diesel Range	Qualifier U  Organics ( Qualifier U	DRO) (GC) RL 50.0	MDL	mg/Kg Unit	— <del>-</del>	Prepared	Analyzed 07/31/24 00:30 Analyzed	Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM - Analyte	EX - Total BTE Result <0.00398  Diesel Range Result <50.0  - Diesel Range	Qualifier U  Organics ( Qualifier U  Organics Qualifier U	DRO) (GC) RL 50.0 (DRO) (GC)	MDL	mg/Kg  Unit mg/Kg	<u></u> <u>D</u>	Prepared Prepared	Analyzed 07/31/24 00:30  Analyzed 07/30/24 23:24	Dil Fac

Job ID: 880-46630-1

Client: Carmona Resources Project/Site: Markham #001

SDG: Eddy Co, NM

Client Sample ID: BH-3 (6.0') Date Collected: 07/29/24 00:00

Lab Sample ID: 880-46630-29 **Matrix: Solid** 

Date Received: 07/30/24 08:30

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/30/24 10:55	07/30/24 23:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			07/30/24 10:55	07/30/24 23:24	1
o-Terphenyl	112		70 - 130			07/30/24 10:55	07/30/24 23:24	1

Method: EPA 300.0 - Anions, le	on Chromat	tography - S	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020		24.9		mg/Kg			08/02/24 02:47	5

Client Sample ID: BH-3 (8.0') Date Collected: 07/29/24 00:00

Lab Sample ID: 880-46630-30 Matrix: Solid

Date Received: 07/30/24 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/31/24 00:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/31/24 00:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/31/24 00:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/24 11:17	07/31/24 00:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/31/24 00:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/24 11:17	07/31/24 00:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				07/30/24 11:17	07/31/24 00:51	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/24 11:17	07/31/24 00:51	1

Method: TAL SOP Total BTEX	- Total BTE	X Calcul	ation						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/31/24 00:51	1

Method: SW846 8015 NM - Diesel	Range Organics (DI	(GC) (GC)						
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	727	49.9		mg/Kg			07/30/24 23:40	1
Method: SW846 8015B NM - Diese	el Range Organics (f	ORO) (GC)						
Analyte	Popult Qualifier		MDI	Linit	n	Droporod	Analyzad	Dil Ess

Method: SW846 8015B NM - L	Diesel Range	e 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		07/30/24 10:55	07/30/24 23:40	1
Diesel Range Organics (Over C10-C28)	727	*+	49.9		mg/Kg		07/30/24 10:55	07/30/24 23:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/30/24 10:55	07/30/24 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				07/30/24 10:55	07/30/24 23:40	1
o-Terphenyl	112		70 - 130				07/30/24 10:55	07/30/24 23:40	1

Method: EPA 300.0 - Anions, I	on Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2130		25.2		mg/Kg			08/02/24 02:55	5

Job ID: 880-46630-1

Client: Carmona Resources Project/Site: Markham #001

Diesel Range Organics (Over

Oil Range Organics (Over C28-C36)

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

SDG: Eddy Co, NM

Client Sample ID: BH-3 (10') Date Collected: 07/29/24 00:00

Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-31

08/06/24 10:46 08/07/24 01:50

08/06/24 10:46 08/07/24 01:50

08/06/24 10:46 08/07/24 01:50

Analyzed

Prepared

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/06/24 11:12	08/06/24 21:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/06/24 11:12	08/06/24 21:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/06/24 11:12	08/06/24 21:24	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/06/24 11:12	08/06/24 21:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/06/24 11:12	08/06/24 21:24	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/06/24 11:12	08/06/24 21:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/06/24 11:12	08/06/24 21:24	1
1,4-Difluorobenzene (Surr)	94		70 - 130				08/06/24 11:12	08/06/24 21:24	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion						
Analyte	Danult								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404		RL 0.00404	MDL	Unit mg/Kg	D	Prepared	Analyzed 08/06/24 21:24	Dil Fac
Total BTEX  Method: SW846 8015 NM -	<0.00404	U	0.00404	MDL		<u>D</u>	Prepared		Dil Fac
- -	<0.00404  Diesel Range	U	0.00404	MDL MDL		<u>D</u> D	Prepared Prepared		Dil Fac
: Method: SW846 8015 NM -	<0.00404  Diesel Range	Organics ( Qualifier	0.00404 DRO) (GC)		mg/Kg	_ =	<u> </u>	08/06/24 21:24	1
Method: SW846 8015 NM - Analyte Total TPH	<0.00404  Diesel Range Result <49.8	Organics ( Qualifier	0.00404  DRO) (GC) RL 49.8		mg/Kg Unit	_ =	<u> </u>	08/06/24 21:24  Analyzed	1
Method: SW846 8015 NM - Analyte	<0.00404 Diesel Range (Result  <49.8 I - Diesel Range (Result	Organics ( Qualifier	0.00404  DRO) (GC) RL 49.8		mg/Kg Unit	_ =	<u> </u>	08/06/24 21:24  Analyzed	Dil Fac
Method: SW846 8015 NM - Analyte Total TPH Method: SW846 8015B NM	<0.00404 Diesel Range (Result  <49.8 I - Diesel Range (Result	Organics ( Qualifier U  Organics Qualifier	0.00404  DRO) (GC) RL 49.8  (DRO) (GC)	MDL	mg/Kg  Unit mg/Kg	<u></u>	Prepared	08/06/24 21:24  Analyzed 08/07/24 01:50	1

Dil Fac

	Anions, Ion Chromato	graphy - Soluble					
Analyte	Result Q	ualifier RL	MDL U	lnit D	Prepared	Analyzed	Dil Fac
Chloride	596	4.97	m	ng/Kg		08/08/24 18:20	1

49.8

49.8

Limits

70 - 130

70 - 130

mg/Kg

mg/Kg

<49.8 U

<49.8 U

%Recovery Qualifier

150 S1+

133 S1+

### **Surrogate Summary**

Client: Carmona Resources Job ID: 880-46630-1 SDG: Eddy Co, NM Project/Site: Markham #001

Method: 8021B - Volatile Organic Compounds (GC)

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

			Percer	nt Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-46630-1	BH-1 (0-1')	103	96	
880-46630-1 MS	BH-1 (0-1')	105	97	
880-46630-1 MSD	BH-1 (0-1')	103	95	
880-46630-2	BH-1 (2.0')	104	96	
880-46630-3	BH-1 (3.0')	106	98	
880-46630-4	BH-1 (4.0')	102	96	
880-46630-5	BH-1 (6.0')	109	97	
880-46630-6	BH-1 (8.0')	105	97	
880-46630-7	BH-1 (10')	98	91	
880-46630-13	BH-2 (0-1')	105	97	
880-46630-14	BH-2 (2.0')	108	96	
880-46630-15	BH-2 (3.0')	106	96	
880-46630-16	BH-2 (4.0')	108	98	
880-46630-17	BH-2 (6.0')	102	97	
880-46630-18	BH-2 (8.0')	103	96	
880-46630-19	BH-2 (10')	101	94	
880-46630-25	BH-3 (0-1')	107	96	
880-46630-26	BH-3 (2.0')	110	97	
880-46630-27	BH-3 (3.0')	102	97	
880-46630-28	BH-3 (4.0')	105	97	
880-46630-29	BH-3 (6.0')	103	96	
880-46630-30	BH-3 (8.0')	109	97	
880-46630-31	BH-3 (10')	103	94	
885-9144-A-10-B MS	Matrix Spike	100	101	
885-9144-A-10-C MSD	Matrix Spike Duplicate	94	102	
LCS 880-87045/1-A	Lab Control Sample	101	101	
LCS 880-87616/1-A	Lab Control Sample	94	102	
LCSD 880-87045/2-A	Lab Control Sample Dup	100	100	
LCSD 880-87616/2-A	Lab Control Sample Dup	97	99	
MB 880-87045/5-A	Method Blank	101	90	
MB 880-87616/5-A	Method Blank	98	83	
Surrogate Legend				

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** 

			Per
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-46630-1	BH-1 (0-1')	100	91
880-46630-2	BH-1 (2.0')	99	90
880-46630-3	BH-1 (3.0')	104	95
880-46630-4	BH-1 (4.0')	89	82
880-46630-5	BH-1 (6.0')	92	83
880-46630-6	BH-1 (8.0')	91	83
880-46630-7	BH-1 (10')	131 S1+	133 S1+
880-46630-13	BH-2 (0-1')	99	90

### **Surrogate Summary**

Client: Carmona Resources

Job ID: 880-46630-1

Project/Site: Markham #001

SDG: Eddy Co, NM

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

Matrix: Solid Prep Type: Total/NA

			Per	cent S	Surrogate Recovery (Acc	Surrogate Recovery (Acceptance Limit	Surrogate Recovery (Acceptance Limits)			
		1001	OTPH1							
Lab Sample ID	Client Sample ID	(70-130)	(70-130)							
880-46630-14	BH-2 (2.0')	104	93							
880-46630-15	BH-2 (3.0')	107	96							
880-46630-16	BH-2 (4.0')	109	108							
880-46630-16 MS	BH-2 (4.0')	105	114							
880-46630-16 MSD	BH-2 (4.0')	105	114							
880-46630-17	BH-2 (6.0')	101	100							
880-46630-18	BH-2 (8.0')	105	105							
880-46630-19	BH-2 (10')	133 S1+	132 S1+							
880-46630-25	BH-3 (0-1')	101	101							
880-46630-26	BH-3 (2.0')	102	101							
880-46630-27	BH-3 (3.0')	102	101							
880-46630-28	BH-3 (4.0')	110	110							
880-46630-29	BH-3 (6.0')	112	112							
880-46630-30	BH-3 (8.0')	106	112							
880-46630-31	BH-3 (10')	150 S1+	133 S1+							
880-46870-A-24-B MS	Matrix Spike	120	136 S1+							
880-46870-A-24-C MSD	Matrix Spike Duplicate	120	134 S1+							
885-9143-A-28-B MS	Matrix Spike	130	124							
885-9143-A-28-C MSD	Matrix Spike Duplicate	129	124							
890-6962-A-21-C MS	Matrix Spike	97	91							
890-6962-A-21-D MSD	Matrix Spike Duplicate	97	92							
LCS 880-87034/2-A	Lab Control Sample	89	83							
LCS 880-87035/2-A	Lab Control Sample	101	196 S1+							
LCS 880-87592/2-A	Lab Control Sample	134 S1+	149 S1+							
LCS 880-87612/2-A	Lab Control Sample	103	95							
LCSD 880-87034/3-A	Lab Control Sample Dup	89	82							
LCSD 880-87035/3-A	Lab Control Sample Dup	107	218 S1+							
LCSD 880-87592/3-A	Lab Control Sample Dup	135 S1+	150 S1+							
LCSD 880-87612/3-A	Lab Control Sample Dup	105	99							
MB 880-87034/1-A	Method Blank	79	78							
MB 880-87035/1-A	Method Blank	7 <i>9</i> 86	92							
MB 880-87592/1-A	Method Blank	118	119							
MB 880-87612/1-A	Method Blank	91	85							
IVID 000-01012/1-A	MEUIOU DIAIIK	91	υS							
Surrogate Legend										

**Surrogate Legend** 

1CO = 1-Chlorooctane OTPH = o-Terphenyl

## **QC Sample Results**

Client: Carmona Resources Job ID: 880-46630-1 Project/Site: Markham #001 SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-87045/5-A

**Matrix: Solid** 

**Analysis Batch: 87075** 

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

Prep Batch: 87045

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 17:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 17:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 17:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/24 11:17	07/30/24 17:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 17:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/24 11:17	07/30/24 17:26	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101	70 - 130	07/30/24 11:17	07/30/24 17:26	1
1,4-Difluorobenzene (Surr)	90	70 - 130	07/30/24 11:17	07/30/24 17:26	1

Lab Sample ID: LCS 880-87045/1-A

Matrix: Solid

**Analysis Batch: 87075** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 87045

ı		Spike	LCS	LCS				%Rec	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	0.100	0.1215		mg/Kg		121	70 - 130	
	Toluene	0.100	0.1092		mg/Kg		109	70 - 130	
١	Ethylbenzene	0.100	0.1121		mg/Kg		112	70 - 130	
İ	m-Xylene & p-Xylene	0.200	0.2337		mg/Kg		117	70 - 130	
	o-Xylene	0.100	0.1145		mg/Kg		114	70 - 130	
-1									

LCS LCS

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

Lab Sample ID: LCSD 880-87045/2-A

**Matrix: Solid** 

**Analysis Batch: 87075** 

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

Prep Batch: 87045

Spike	LCSD LCSD			%Rec		RPD
Added	Result Qualifier	Unit D	%Rec	Limits	RPD	Limit
0.100	0.1216	mg/Kg	122	70 - 130	0	35
0.100	0.1094	mg/Kg	109	70 - 130	0	35
0.100	0.1122	mg/Kg	112	70 - 130	0	35
0.200	0.2342	mg/Kg	117	70 - 130	0	35
0.100	0.1147	mg/Kg	115	70 - 130	0	35
	0.100 0.100 0.100 0.100 0.200	Added         Result         Qualifier           0.100         0.1216           0.100         0.1094           0.100         0.1122           0.200         0.2342	Added         Result         Qualifier         Unit         D           0.100         0.1216         mg/Kg           0.100         0.1094         mg/Kg           0.100         0.1122         mg/Kg           0.200         0.2342         mg/Kg	Added         Result         Qualifier         Unit         D         %Rec           0.100         0.1216         mg/Kg         122           0.100         0.1094         mg/Kg         109           0.100         0.1122         mg/Kg         112           0.200         0.2342         mg/Kg         117	Added         Result         Qualifier         Unit         D         %Rec         Limits           0.100         0.1216         mg/Kg         122         70 - 130           0.100         0.1094         mg/Kg         109         70 - 130           0.100         0.1122         mg/Kg         112         70 - 130           0.200         0.2342         mg/Kg         117         70 - 130	Added         Result         Qualifier         Unit         D         %Rec         Limits         RPD           0.100         0.1216         mg/Kg         122         70 - 130         0           0.100         0.1094         mg/Kg         109         70 - 130         0           0.100         0.1122         mg/Kg         112         70 - 130         0           0.200         0.2342         mg/Kg         117         70 - 130         0

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1.4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-46630-1 MS

**Matrix: Solid** 

**Analysis Batch: 87075** 

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

Prep Type: Total/NA

Prep Batch: 87045

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U F1 F2	0.100	0.07196		mg/Kg	_	72	70 - 130	
Toluene	<0.00202	U F1	0.100	0.06625	F1	mg/Kg		66	70 - 130	

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Prep Batch: 87045

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

## **QC Sample Results**

Client: Carmona Resources Job ID: 880-46630-1 Project/Site: Markham #001 SDG: Eddy Co, NM

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

Lab Sample ID: 880-46630-1 MS Client Sample ID: BH-1 (0-1') Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 87075** 

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00202	U F1	0.100	0.06926	F1	mg/Kg		69	70 - 130	
m-Xylene & p-Xylene	<0.00404	U F1	0.200	0.1446		mg/Kg		72	70 - 130	
o-Xylene	<0.00202	U F1	0.100	0.07369		mg/Kg		74	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 105 70 - 130 1,4-Difluorobenzene (Surr) 97 70 - 130

Lab Sample ID: 880-46630-1 MSD

Matrix: Solid Analysis Batch: 87075									Prep ly Prep E	•	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U F1 F2	0.100	0.04889	F1 F2	mg/Kg		49	70 - 130	38	35
Toluene	<0.00202	U F1	0.100	0.04726	F1	mg/Kg		47	70 - 130	33	35
Ethylbenzene	<0.00202	U F1	0.100	0.05249	F1	mg/Kg		52	70 - 130	28	35
m-Xylene & p-Xylene	< 0.00404	U F1	0.200	0.1100	F1	mg/Kg		55	70 - 130	27	35

0.05767 F1

mg/Kg

0.100

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 103 70 - 130 1,4-Difluorobenzene (Surr) 95 70 - 130

<0.00202 UF1

MB MB

Lab Sample ID: MB 880-87616/5-A

**Matrix: Solid** 

o-Xylene

**Analysis Batch: 87664** 

Client Sample	e ID: Method Blank
P	rep Type: Total/NA
	Prep Batch: 87616

**Client Sample ID: Lab Control Sample** 

70 - 130

24

58

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:12	08/06/24 17:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:12	08/06/24 17:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:12	08/06/24 17:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/24 11:12	08/06/24 17:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:12	08/06/24 17:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/06/24 11:12	08/06/24 17:57	1
	MB	МВ							

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	08/06/24 11:12	08/06/24 17:57	1
1,4-Difluorobenzene (Surr)	83		70 - 130	08/06/24 11:12	08/06/24 17:57	1

Lab Sample ID: LCS 880-87616/1-A

Matrix: Solid Analysis Batch: 87664	Spike	ıcs	LCS					pe: Total/NA Batch: 87616
Analyte	Added	_	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1037	-	mg/Kg		104	70 - 130	
Toluene	0.100	0.08955		mg/Kg		90	70 - 130	
Ethylbenzene	0.100	0.09714		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.1931		mg/Kg		97	70 - 130	

Client: Carmona Resources Job ID: 880-46630-1 Project/Site: Markham #001 SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-87616/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 87664** Prep Batch: 87616 LCS LCS Spike %Rec

Analyte Added Result Qualifier Unit %Rec Limits o-Xylene 0 100 0.09793 mg/Kg 98 70 - 130

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 94 70 - 130 1,4-Difluorobenzene (Surr) 102 70 - 130

Lab Sample ID: LCSD 880-87616/2-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Total/NA** 

**Analysis Batch: 87664** 

Prep Batch: 87616 Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Benzene 0.100 0.09488 mg/Kg 95 70 - 130 9 35 Toluene 0.100 0.08237 mg/Kg 82 70 - 130 8 35 Ethylbenzene 0.100 0.08994 mg/Kg 90 70 - 130 8 35 m-Xylene & p-Xylene 0.200 0.1775 89 70 - 130 35 mg/Kg o-Xylene 0.100 0.09070 mg/Kg 91 70 - 130 8 35

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 97 70 - 130 1,4-Difluorobenzene (Surr) 99 70 - 130

Lab Sample ID: 885-9144-A-10-B MS **Client Sample ID: Matrix Spike Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 87664** 

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.100	0.09524		mg/Kg		95	70 - 130	 
Toluene	<0.00202	U	0.100	0.08173		mg/Kg		82	70 - 130	
Ethylbenzene	<0.00202	U	0.100	0.08898		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1760		mg/Kg		88	70 - 130	
o-Xylene	<0.00202	U	0.100	0.08965		mg/Kg		90	70 - 130	

MS MS %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 100 1,4-Difluorobenzene (Surr) 70 - 130 101

Lab Sample ID: 885-9144-A-10-C MSD **Client Sample ID: Matrix Spike Duplicate** 

**Matrix: Solid** 

Analysis Batch: 87664									Prep E	Batch: 8	37616
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.100	0.1074		mg/Kg		107	70 - 130	12	35
Toluene	<0.00202	U	0.100	0.09318		mg/Kg		93	70 - 130	13	35
Ethylbenzene	<0.00202	U	0.100	0.09987		mg/Kg		100	70 - 130	12	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1964		mg/Kg		98	70 - 130	11	35
o-Xylene	<0.00202	U	0.100	0.09913		mg/Kg		99	70 - 130	10	35

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Prep Batch: 87616

Prep Type: Total/NA

Client: Carmona Resources Job ID: 880-46630-1 Project/Site: Markham #001 SDG: Eddy Co, NM

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

Lab Sample ID: 885-9144-A-10-C MSD

**Matrix: Solid** 

**Analysis Batch: 87664** 

**Client Sample ID: Matrix Spike Duplicate** 

Prep Type: Total/NA

Prep Batch: 87616

MSD MSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 94 70 - 130 1,4-Difluorobenzene (Surr) 102 70 - 130

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

Lab Sample ID: MB 880-87034/1-A

**Matrix: Solid** 

**Analysis Batch: 87030** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Batch: 87034

MD MD

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/30/24 20:16	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/30/24 20:16	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/30/24 20:16	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	07/30/24 10:46	07/30/24 20:16	1
o-Terphenyl	78		70 - 130	07/30/24 10:46	07/30/24 20:16	1

Lab Sample ID: LCS 880-87034/2-A

**Matrix: Solid** 

**Analysis Batch: 87030** 

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Prep Batch: 87034

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1101		mg/Kg		110	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	880.9		mg/Kg		88	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	89	70 - 130
o-Ternhenyl	83	70 130

Lab Sample ID: LCSD 880-87034/3-A

**Matrix: Solid** 

**Analysis Batch: 87030** 

**Client Sample ID: Lab Control Sample Dup** 

**Prep Type: Total/NA** Prep Batch: 87034

Spike LCSD LCSD %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Gasoline Range Organics 1000 1097 mg/Kg 110 70 - 130 0 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 873.7 mg/Kg 87 70 - 130 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifie	r Limits
1-Chlorooctane	89	70 - 130
o-Terphenyl	82	70 - 130

**Eurofins Midland** 

**RPD** Limit

Released to Imaging: 11/14/2024 7:34:13 AM

Client Sample ID: Matrix Spike

**Client Sample ID: Matrix Spike Duplicate** 

**Client Sample ID: Method Blank** 

07/30/24 10:55 07/30/24 20:16

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

**Prep Type: Total/NA** 

Prep Type: Total/NA

Prep Type: Total/NA

Client: Carmona Resources Job ID: 880-46630-1 Project/Site: Markham #001 SDG: Eddy Co, NM

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

Lab Sample ID: 890-6962-A-21-C MS

**Matrix: Solid** 

**Analysis Batch: 87030** 

Prep Batch: 87034 Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec Gasoline Range Organics <49.7 U 993 1010 mg/Kg 102 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 993 866.7 <49.7 U mg/Kg 87 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 97 70 - 130 o-Terphenyl 91

Lab Sample ID: 890-6962-A-21-D MSD

**Matrix: Solid** 

Analysis Batch: 87030									Prep E	atch: 8	7034
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	993	1030		mg/Kg		104	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.7	U	993	897.2		mg/Kg		90	70 - 130	3	20

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 97 70 - 130 o-Terphenyl 92 70 - 130

Lab Sample ID: MB 880-87035/1-A

**Matrix: Solid** 

C10-C28)

Oil Range Organics (Over C28-C36)

Analysis Batch: 87032								Prep Batch:	8/035
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/30/24 10:55	07/30/24 20:16	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/30/24 10:55	07/30/24 20:16	1

MB MB

<50.0 U

Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 1-Chlorooctane 70 - 130 07/30/24 10:55 07/30/24 20:16 86 o-Terphenyl 92 70 - 130 07/30/24 10:55 07/30/24 20:16

50.0

mg/Kg

Lab Sample ID: LCS 880-87035/2-A

**Matrix: Solid** 

Analysis Batch: 87032							Prep E	Batch: 87035
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1131		mg/Kg		113	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1708	*+	mg/Kg		171	70 - 130	
C10-C28)								

Client: Carmona Resources Job ID: 880-46630-1 SDG: Eddy Co, NM Project/Site: Markham #001

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

Lab Sample ID: LCS 880-87035/2-A

**Matrix: Solid** 

**Analysis Batch: 87032** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 87035

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 101 70 - 130 o-Terphenyl 196 S1+ 70 - 130

Lab Sample ID: LCSD 880-87035/3-A

Lab Sample ID: 880-46630-16 MS

**Matrix: Solid** 

**Analysis Batch: 87032** 

**Client Sample ID: Lab Control Sample Dup** 

**Prep Type: Total/NA** 

Prep Batch: 87035

LCSD LCSD RPD %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 1172 mg/Kg 117 70 - 130 4 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1865 \*+ mg/Kg 187 70 - 130 9 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 107 70 - 130 70 - 130 o-Terphenyl 218 S1+

Client Sample ID: BH-2 (4.0')

**Prep Type: Total/NA** 

Prep Batch: 87035

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits **Analyte** Unit D %Rec Gasoline Range Organics <49.9 U 995 1024 mg/Kg 103 70 - 130 (GRO)-C6-C10 995 1082 Diesel Range Organics (Over <49.9 U\*+ mg/Kg 109 70 - 130

C10-C28)

**Matrix: Solid** 

**Analysis Batch: 87032** 

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 105 70 - 130 o-Terphenyl 114 70 - 130

Lab Sample ID: 880-46630-16 MSD Client Sample ID: BH-2 (4.0')

**Matrix: Solid** 

**Analysis Batch: 87032** 

**Prep Type: Total/NA** 

Prep Batch: 87035 %Rec **RPD** 

Sample Sample Spike MSD MSD Result Qualifier RPD Added Result Qualifier Limits Limit **Analyte** Unit %Rec Gasoline Range Organics <49.9 U 995 1012 102 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U\*+ 995 1085 mg/Kg 109 70 - 130 0 20

C10-C28)

MSD MSD

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 105 70 - 130 o-Terphenyl 114 70 - 130

Client: Carmona Resources Job ID: 880-46630-1 Project/Site: Markham #001 SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-87592/1-A

Lab Sample ID: LCS 880-87592/2-A

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 87745** 

**Analysis Batch: 87745** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Batch: 87592

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/06/24 08:19	08/08/24 00:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/06/24 08:19	08/08/24 00:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/06/24 08:19	08/08/24 00:13	1
	MB	MB							

Surrogate	%Recovery	Qualifier	Limits	Prepared Ai	nalyzed	Dil Fac
1-Chlorooctane	118		70 - 130	08/06/24 08:19 08/08	8/24 00:13	1
o-Terphenyl	119		70 - 130	08/06/24 08:19 08/08	8/24 00:13	1

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA** 

Prep Batch: 87592

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1233		mg/Kg		123	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1337	*+	mg/Kg		134	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	134	S1+	70 - 130
o-Terphenyl	149	S1+	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

**Analysis Batch: 87745** 

**Matrix: Solid** 

Lab Sample ID: LCSD 880-87592/3-A

Prep Batch: 87592 Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limit Analyte Unit D %Rec Limits RPD Gasoline Range Organics 1000 1245 mg/Kg 124 70 - 130 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 1419 \*+ mg/Kg 142 70 - 130 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	135	S1+	70 - 130
o-Terphenyl	150	S1+	70 - 130

Lab Sample ID: 880-46870-A-24-B MS **Client Sample ID: Matrix Spike** 

**Matrix: Solid** 

C10-C28)

**Analysis Batch: 87745** Prep Batch: 87592 Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <50.0 U 1069 Gasoline Range Organics 996 mg/Kg 107 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U\*+ 996 1201 mg/Kg 121 70 - 130

Client: Carmona Resources Job ID: 880-46630-1 SDG: Eddy Co, NM Project/Site: Markham #001

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

Lab Sample ID: 880-46870-A-24-B MS

**Matrix: Solid** 

**Analysis Batch: 87745** 

**Client Sample ID: Matrix Spike** 

Prep Type: Total/NA

Prep Batch: 87592

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 120 70 - 130 o-Terphenyl 136 S1+ 70 - 130

Lab Sample ID: 880-46870-A-24-C MSD

**Matrix: Solid** 

**Analysis Batch: 87745** 

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

Prep Batch: 87592

RPD MSD MSD %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics <50.0 U 996 1092 mg/Kg 110 70 - 130 2 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U\*+ 996 1155 mg/Kg 116 70 - 130 20 C10-C28)

MSD MSD

MR MR

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 120 70 - 130 70 - 130 o-Terphenyl 134 S1+

Lab Sample ID: MB 880-87612/1-A

**Matrix: Solid** 

**Analysis Batch: 87595** 

Client Sample ID: Method Blank **Prep Type: Total/NA** 

Analyzed

Dil Fac

Prep Batch: 87612

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/06/24 10:46	08/06/24 20:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/06/24 10:46	08/06/24 20:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/06/24 10:46	08/06/24 20:14	1
	MB	MB							

Qualifier Surrogate %Recovery Limits 1-Chlorooctane 91 70 - 130 85 70 - 130 o-Terphenyl

Prepared

Lab Sample ID: LCS 880-87612/2-A

**Matrix: Solid** 

**Analysis Batch: 87595** 

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA Prep Batch: 87612

LCS LCS Spike %Rec Added Result Qualifier %Rec Limits Analyte Unit 1000 1088 Gasoline Range Organics 109 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 931.9 mg/Kg 93 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery Qualifie	er Limits
1-Chlorooctane	103	70 - 130
o-Terphenyl	95	70 - 130

### QC Sample Results

Client: Carmona Resources Job ID: 880-46630-1 SDG: Eddy Co, NM Project/Site: Markham #001

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

Lab Sample ID: LCSD 880-87612/3-A

Lab Sample ID: 885-9143-A-28-B MS

**Matrix: Solid** 

**Analysis Batch: 87595** 

Client Sample ID: Lab Control Sample Dup

**Prep Type: Total/NA** 

Prep Batch: 87612

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1095		mg/Kg		110	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	966.0		mg/Kg		97	70 - 130	4	20

C10-C28)

**Matrix: Solid** 

**Analysis Batch: 87595** 

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	99		70 - 130

**Client Sample ID: Matrix Spike** 

Prep Type: Total/NA

Prep Batch: 87612

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec Gasoline Range Organics <49.9 U 999 999.2 100 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 890.8 mg/Kg 89 70 - 130 C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 130 70 - 130 o-Terphenyl 124 70 - 130

Lab Sample ID: 885-9143-A-28-C MSD

**Matrix: Solid** 

**Analysis Batch: 87595** 

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 87612

Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics <49.9 U 999 100 20 1001 70 - 130 0 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 875.6 mg/Kg 88 70 - 130 2 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	124		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87052/1-A

**Matrix: Solid** 

**Analysis Batch: 87115** 

**Client Sample ID: Method Blank** 

**Prep Type: Soluble** 

MB MB

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 5.00 Chloride <5.00 U mg/Kg 07/31/24 23:40

### QC Sample Results

Client: Carmona Resources Job ID: 880-46630-1 SDG: Eddy Co, NM Project/Site: Markham #001

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-87052/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 87115** 

Spike LCS LCS %Rec Result Qualifier Added Limits Analyte Unit D %Rec Chloride 250 247.5 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-87052/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 87115** 

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 250 90 - 110 Chloride 249.2 mg/Kg 100

Lab Sample ID: 820-14436-A-1-F MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 87115** 

Sample Sample Spike MS MS %Rec Result Qualifier Result Qualifier Added Limits Analyte Unit %Rec Chloride 3480 F1 1240 4572 F1 88 90 - 110 mg/Kg

Lab Sample ID: 820-14436-A-1-G MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 87115** 

Spike MSD MSD %Rec **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit 1240 4572 F1 Chloride 3480 F1 mg/Kg 88 90 - 110

Lab Sample ID: 820-14436-A-11-E MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 87115** 

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier RPD Unit %Rec Limits Limit Chloride 9480 F1 4970 17330 F1 158 mg/Kg 90 - 110

Lab Sample ID: 820-14436-A-11-G MS

**Matrix: Solid** 

**Analysis Batch: 87115** 

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits D 9480 F1 4970 Chloride 17280 F1 mg/Kg 157 90 - 110

Lab Sample ID: MB 880-87054/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 87128** 

MB MB Result Qualifier RL MDL Unit Prepared Dil Fac Analyte Analyzed 5.00 Chloride <5.00 U mg/Kg 08/01/24 23:36

Lab Sample ID: LCS 880-87054/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 87128** 

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 232.9 mg/Kg 93 90 - 110

**Eurofins Midland** 

**Client Sample ID: Matrix Spike** 

**Prep Type: Soluble** 

Job ID: 880-46630-1

SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-87054/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 87128** 

Client: Carmona Resources

Project/Site: Markham #001

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit %Rec Limits RPD Limit Analyte Chloride 250 233.8 mg/Kg 90 - 110 0

Lab Sample ID: 880-46630-4 MS Client Sample ID: BH-1 (4.0') **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 87128** 

	Sample Sample	Spike M	IS MS			%Rec
Analyte	Result Qualifier	Added Resu	ılt Qualifier	Unit [	%Rec	Limits
Chloride	3750 F1	2500 669	97 F1	ma/Ka	118	90 - 110

Lab Sample ID: 880-46630-4 MSD Client Sample ID: BH-1 (4.0') **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 87128** 

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	3750	F1	2500	6713	F1	mg/Kg		119	90 - 110	0	20

Lab Sample ID: 880-46630-26 MS Client Sample ID: BH-3 (2.0') **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 87128** 

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	453	F1	249	663.0	F1	mg/Kg	_	84	90 - 110	

Lab Sample ID: 880-46630-26 MSD Client Sample ID: BH-3 (2.0') **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 87128** 

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	453	F1	249	669.3	F1	ma/Ka		87	90 - 110	1	20	

Lab Sample ID: MB 880-87786/1-A **Client Sample ID: Method Blank Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 87827** 

MB MB Result Qualifier **MDL** Unit Analyte RL Dil Fac Prepared Analyzed 5.00 08/08/24 17:44 Chloride <5.00 U mg/Kg

Lab Sample ID: LCS 880-87786/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 87827** 

Spike LCS LCS %Rec Added Analyte Result Qualifier Limits Unit D %Rec 250 Chloride 233.6 mg/Kg 93 90 - 110

Lab Sample ID: LCSD 880-87786/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 87827** 

Released to Imaging: 11/14/2024 7:34:13 AM

Spike LCSD LCSD %Rec **RPD** Added Analyte Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 90 - 110 235.9 mg/Kg

### **QC Sample Results**

Client: Carmona Resources Job ID: 880-46630-1 Project/Site: Markham #001 SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-46630-7 MS Client Sample ID: BH-1 (10') **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 87827** 

7 <b>,</b> 0.0 _ 0.0 0.0	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	1030	F1	1240	2479	F1	mg/Kg		117	90 - 110		_

Lab Sample ID: 880-46630-7 MSD Client Sample ID: BH-1 (10')

**Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 87827** 

RPD Sample Sample Spike MSD MSD %Rec **Analyte** Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 1030 F1 1240 2499 F1 119 90 - 110 mg/Kg

Job ID: 880-46630-1 Client: Carmona Resources Project/Site: Markham #001 SDG: Eddy Co, NM

### **GC VOA**

### Prep Batch: 87045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-1	BH-1 (0-1')	Total/NA	Solid	5035	
880-46630-2	BH-1 (2.0')	Total/NA	Solid	5035	
880-46630-3	BH-1 (3.0')	Total/NA	Solid	5035	
880-46630-4	BH-1 (4.0')	Total/NA	Solid	5035	
880-46630-5	BH-1 (6.0')	Total/NA	Solid	5035	
880-46630-6	BH-1 (8.0')	Total/NA	Solid	5035	
880-46630-13	BH-2 (0-1')	Total/NA	Solid	5035	
880-46630-14	BH-2 (2.0')	Total/NA	Solid	5035	
880-46630-15	BH-2 (3.0')	Total/NA	Solid	5035	
880-46630-16	BH-2 (4.0')	Total/NA	Solid	5035	
880-46630-17	BH-2 (6.0')	Total/NA	Solid	5035	
880-46630-18	BH-2 (8.0')	Total/NA	Solid	5035	
880-46630-25	BH-3 (0-1')	Total/NA	Solid	5035	
880-46630-26	BH-3 (2.0')	Total/NA	Solid	5035	
880-46630-27	BH-3 (3.0')	Total/NA	Solid	5035	
880-46630-28	BH-3 (4.0')	Total/NA	Solid	5035	
880-46630-29	BH-3 (6.0')	Total/NA	Solid	5035	
880-46630-30	BH-3 (8.0')	Total/NA	Solid	5035	
MB 880-87045/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87045/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87045/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-46630-1 MS	BH-1 (0-1')	Total/NA	Solid	5035	
880-46630-1 MSD	BH-1 (0-1')	Total/NA	Solid	5035	

#### **Analysis Batch: 87075**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-1	BH-1 (0-1')	Total/NA	Solid	8021B	87045
880-46630-2	BH-1 (2.0')	Total/NA	Solid	8021B	87045
880-46630-3	BH-1 (3.0')	Total/NA	Solid	8021B	87045
880-46630-4	BH-1 (4.0')	Total/NA	Solid	8021B	87045
880-46630-5	BH-1 (6.0')	Total/NA	Solid	8021B	87045
880-46630-6	BH-1 (8.0')	Total/NA	Solid	8021B	87045
880-46630-13	BH-2 (0-1')	Total/NA	Solid	8021B	87045
880-46630-14	BH-2 (2.0')	Total/NA	Solid	8021B	87045
880-46630-15	BH-2 (3.0')	Total/NA	Solid	8021B	87045
880-46630-16	BH-2 (4.0')	Total/NA	Solid	8021B	87045
880-46630-17	BH-2 (6.0')	Total/NA	Solid	8021B	87045
880-46630-18	BH-2 (8.0')	Total/NA	Solid	8021B	87045
880-46630-25	BH-3 (0-1')	Total/NA	Solid	8021B	87045
880-46630-26	BH-3 (2.0')	Total/NA	Solid	8021B	87045
880-46630-27	BH-3 (3.0')	Total/NA	Solid	8021B	87045
880-46630-28	BH-3 (4.0')	Total/NA	Solid	8021B	87045
880-46630-29	BH-3 (6.0')	Total/NA	Solid	8021B	87045
880-46630-30	BH-3 (8.0')	Total/NA	Solid	8021B	87045
MB 880-87045/5-A	Method Blank	Total/NA	Solid	8021B	87045
LCS 880-87045/1-A	Lab Control Sample	Total/NA	Solid	8021B	87045
LCSD 880-87045/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87045
880-46630-1 MS	BH-1 (0-1')	Total/NA	Solid	8021B	87045
880-46630-1 MSD	BH-1 (0-1')	Total/NA	Solid	8021B	87045

Job ID: 880-46630-1 Client: Carmona Resources Project/Site: Markham #001 SDG: Eddy Co, NM

### **GC VOA**

### **Analysis Batch: 87163**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-1	BH-1 (0-1')	Total/NA	Solid	Total BTEX	
880-46630-2	BH-1 (2.0')	Total/NA	Solid	Total BTEX	
880-46630-3	BH-1 (3.0')	Total/NA	Solid	Total BTEX	
880-46630-4	BH-1 (4.0')	Total/NA	Solid	Total BTEX	
880-46630-5	BH-1 (6.0')	Total/NA	Solid	Total BTEX	
880-46630-6	BH-1 (8.0')	Total/NA	Solid	Total BTEX	
880-46630-7	BH-1 (10')	Total/NA	Solid	Total BTEX	
880-46630-13	BH-2 (0-1')	Total/NA	Solid	Total BTEX	
880-46630-14	BH-2 (2.0')	Total/NA	Solid	Total BTEX	
880-46630-15	BH-2 (3.0')	Total/NA	Solid	Total BTEX	
880-46630-16	BH-2 (4.0')	Total/NA	Solid	Total BTEX	
880-46630-17	BH-2 (6.0')	Total/NA	Solid	Total BTEX	
880-46630-18	BH-2 (8.0')	Total/NA	Solid	Total BTEX	
880-46630-19	BH-2 (10')	Total/NA	Solid	Total BTEX	
880-46630-25	BH-3 (0-1')	Total/NA	Solid	Total BTEX	
880-46630-26	BH-3 (2.0')	Total/NA	Solid	Total BTEX	
880-46630-27	BH-3 (3.0')	Total/NA	Solid	Total BTEX	
880-46630-28	BH-3 (4.0')	Total/NA	Solid	Total BTEX	
880-46630-29	BH-3 (6.0')	Total/NA	Solid	Total BTEX	
880-46630-30	BH-3 (8.0')	Total/NA	Solid	Total BTEX	
880-46630-31	BH-3 (10')	Total/NA	Solid	Total BTEX	

### Prep Batch: 87616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-7	BH-1 (10')	Total/NA	Solid	5035	
880-46630-19	BH-2 (10')	Total/NA	Solid	5035	
880-46630-31	BH-3 (10')	Total/NA	Solid	5035	
MB 880-87616/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87616/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87616/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
885-9144-A-10-B MS	Matrix Spike	Total/NA	Solid	5035	
885-9144-A-10-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

### **Analysis Batch: 87664**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-7	BH-1 (10')	Total/NA	Solid	8021B	87616
880-46630-19	BH-2 (10')	Total/NA	Solid	8021B	87616
880-46630-31	BH-3 (10')	Total/NA	Solid	8021B	87616
MB 880-87616/5-A	Method Blank	Total/NA	Solid	8021B	87616
LCS 880-87616/1-A	Lab Control Sample	Total/NA	Solid	8021B	87616
LCSD 880-87616/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87616
885-9144-A-10-B MS	Matrix Spike	Total/NA	Solid	8021B	87616
885-9144-A-10-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	87616

### **GC Semi VOA**

### **Analysis Batch: 87030**

Lab Sample ID 880-46630-1	Client Sample ID BH-1 (0-1')	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 87034
880-46630-2	BH-1 (2.0')	Total/NA	Solid	8015B NM	87034
880-46630-3	BH-1 (3.0')	Total/NA	Solid	8015B NM	87034

Job ID: 880-46630-1 Client: Carmona Resources Project/Site: Markham #001 SDG: Eddy Co, NM

### **GC Semi VOA (Continued)**

### **Analysis Batch: 87030 (Continued)**

Lab Sample ID 880-46630-4	Client Sample ID BH-1 (4.0')	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 87034
880-46630-5	BH-1 (6.0')	Total/NA	Solid	8015B NM	87034
880-46630-6	BH-1 (8.0')	Total/NA	Solid	8015B NM	87034
880-46630-13	BH-2 (0-1')	Total/NA	Solid	8015B NM	87034
880-46630-14	BH-2 (2.0')	Total/NA	Solid	8015B NM	87034
880-46630-15	BH-2 (3.0')	Total/NA	Solid	8015B NM	87034
MB 880-87034/1-A	Method Blank	Total/NA	Solid	8015B NM	87034
LCS 880-87034/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87034
LCSD 880-87034/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87034
890-6962-A-21-C MS	Matrix Spike	Total/NA	Solid	8015B NM	87034
890-6962-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87034

### **Analysis Batch: 87032**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-16	BH-2 (4.0')	Total/NA	Solid	8015B NM	87035
880-46630-17	BH-2 (6.0')	Total/NA	Solid	8015B NM	87035
880-46630-18	BH-2 (8.0')	Total/NA	Solid	8015B NM	87035
880-46630-25	BH-3 (0-1')	Total/NA	Solid	8015B NM	87035
880-46630-26	BH-3 (2.0')	Total/NA	Solid	8015B NM	87035
880-46630-27	BH-3 (3.0')	Total/NA	Solid	8015B NM	87035
880-46630-28	BH-3 (4.0')	Total/NA	Solid	8015B NM	87035
880-46630-29	BH-3 (6.0')	Total/NA	Solid	8015B NM	87035
880-46630-30	BH-3 (8.0')	Total/NA	Solid	8015B NM	87035
MB 880-87035/1-A	Method Blank	Total/NA	Solid	8015B NM	87035
LCS 880-87035/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87035
LCSD 880-87035/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87035
880-46630-16 MS	BH-2 (4.0')	Total/NA	Solid	8015B NM	87035
880-46630-16 MSD	BH-2 (4.0')	Total/NA	Solid	8015B NM	87035

#### Prep Batch: 87034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-1	BH-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-46630-2	BH-1 (2.0')	Total/NA	Solid	8015NM Prep	
880-46630-3	BH-1 (3.0')	Total/NA	Solid	8015NM Prep	
880-46630-4	BH-1 (4.0')	Total/NA	Solid	8015NM Prep	
880-46630-5	BH-1 (6.0')	Total/NA	Solid	8015NM Prep	
880-46630-6	BH-1 (8.0')	Total/NA	Solid	8015NM Prep	
880-46630-13	BH-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-46630-14	BH-2 (2.0')	Total/NA	Solid	8015NM Prep	
880-46630-15	BH-2 (3.0')	Total/NA	Solid	8015NM Prep	
MB 880-87034/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87034/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87034/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6962-A-21-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6962-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Prep Batch: 87035

Lab Sample ID 880-46630-16	Client Sample ID BH-2 (4.0')	Prep Type Total/NA	Matrix Solid	Method Pre 8015NM Prep	p Batch
880-46630-17	BH-2 (6.0')	Total/NA	Solid	8015NM Prep	
880-46630-18	BH-2 (8.0')	Total/NA	Solid	8015NM Prep	

Client: Carmona Resources

Job ID: 880-46630-1
Project/Site: Markham #001

SDG: Eddy Co, NM

### **GC Semi VOA (Continued)**

### Prep Batch: 87035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-25	BH-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-46630-26	BH-3 (2.0')	Total/NA	Solid	8015NM Prep	
880-46630-27	BH-3 (3.0')	Total/NA	Solid	8015NM Prep	
880-46630-28	BH-3 (4.0')	Total/NA	Solid	8015NM Prep	
880-46630-29	BH-3 (6.0')	Total/NA	Solid	8015NM Prep	
880-46630-30	BH-3 (8.0')	Total/NA	Solid	8015NM Prep	
MB 880-87035/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87035/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87035/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46630-16 MS	BH-2 (4.0')	Total/NA	Solid	8015NM Prep	
880-46630-16 MSD	BH-2 (4.0')	Total/NA	Solid	8015NM Prep	

## **Analysis Batch: 87122**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-1	BH-1 (0-1')	Total/NA	Solid	8015 NM	
880-46630-2	BH-1 (2.0')	Total/NA	Solid	8015 NM	
880-46630-3	BH-1 (3.0')	Total/NA	Solid	8015 NM	
880-46630-4	BH-1 (4.0')	Total/NA	Solid	8015 NM	
880-46630-5	BH-1 (6.0')	Total/NA	Solid	8015 NM	
880-46630-6	BH-1 (8.0')	Total/NA	Solid	8015 NM	
880-46630-7	BH-1 (10')	Total/NA	Solid	8015 NM	
880-46630-13	BH-2 (0-1')	Total/NA	Solid	8015 NM	
880-46630-14	BH-2 (2.0')	Total/NA	Solid	8015 NM	
880-46630-15	BH-2 (3.0')	Total/NA	Solid	8015 NM	
880-46630-16	BH-2 (4.0')	Total/NA	Solid	8015 NM	
880-46630-17	BH-2 (6.0')	Total/NA	Solid	8015 NM	
880-46630-18	BH-2 (8.0')	Total/NA	Solid	8015 NM	
880-46630-19	BH-2 (10')	Total/NA	Solid	8015 NM	
880-46630-25	BH-3 (0-1')	Total/NA	Solid	8015 NM	
880-46630-26	BH-3 (2.0')	Total/NA	Solid	8015 NM	
880-46630-27	BH-3 (3.0')	Total/NA	Solid	8015 NM	
880-46630-28	BH-3 (4.0')	Total/NA	Solid	8015 NM	
880-46630-29	BH-3 (6.0')	Total/NA	Solid	8015 NM	
880-46630-30	BH-3 (8.0')	Total/NA	Solid	8015 NM	
880-46630-31	BH-3 (10')	Total/NA	Solid	8015 NM	

### Prep Batch: 87592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-7	BH-1 (10')	Total/NA	Solid	8015NM Prep	
880-46630-19	BH-2 (10')	Total/NA	Solid	8015NM Prep	
MB 880-87592/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87592/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87592/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46870-A-24-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-46870-A-24-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

### **Analysis Batch: 87595**

Lab Sample ID 880-46630-31	Client Sample ID  BH-3 (10')	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 87612
MB 880-87612/1-A	Method Blank	Total/NA	Solid	8015B NM	87612
LCS 880-87612/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87612

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Job ID: 880-46630-1 Client: Carmona Resources Project/Site: Markham #001 SDG: Eddy Co, NM

### **GC Semi VOA (Continued)**

### **Analysis Batch: 87595 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-87612/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87612
885-9143-A-28-B MS	Matrix Spike	Total/NA	Solid	8015B NM	87612
885-9143-A-28-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87612

### Prep Batch: 87612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-31	BH-3 (10')	Total/NA	Solid	8015NM Prep	
MB 880-87612/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87612/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87612/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
885-9143-A-28-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
885-9143-A-28-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

### **Analysis Batch: 87745**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-7	BH-1 (10')	Total/NA	Solid	8015B NM	87592
880-46630-19	BH-2 (10')	Total/NA	Solid	8015B NM	87592
MB 880-87592/1-A	Method Blank	Total/NA	Solid	8015B NM	87592
LCS 880-87592/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87592
LCSD 880-87592/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87592
880-46870-A-24-B MS	Matrix Spike	Total/NA	Solid	8015B NM	87592
880-46870-A-24-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87592

### **HPLC/IC**

#### Leach Batch: 87052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-1	BH-1 (0-1')	Soluble	Solid	DI Leach	
880-46630-2	BH-1 (2.0')	Soluble	Solid	DI Leach	
880-46630-3	BH-1 (3.0')	Soluble	Solid	DI Leach	
MB 880-87052/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87052/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87052/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-14436-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
820-14436-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
820-14436-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
820-14436-A-11-G MS	Matrix Spike	Soluble	Solid	DI Leach	

#### Leach Batch: 87054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-4	BH-1 (4.0')	Soluble	Solid	DI Leach	
880-46630-5	BH-1 (6.0')	Soluble	Solid	DI Leach	
880-46630-6	BH-1 (8.0')	Soluble	Solid	DI Leach	
880-46630-13	BH-2 (0-1')	Soluble	Solid	DI Leach	
880-46630-14	BH-2 (2.0')	Soluble	Solid	DI Leach	
880-46630-15	BH-2 (3.0')	Soluble	Solid	DI Leach	
880-46630-16	BH-2 (4.0')	Soluble	Solid	DI Leach	
880-46630-17	BH-2 (6.0')	Soluble	Solid	DI Leach	
880-46630-18	BH-2 (8.0')	Soluble	Solid	DI Leach	
880-46630-25	BH-3 (0-1')	Soluble	Solid	DI Leach	
880-46630-26	BH-3 (2.0')	Soluble	Solid	DI Leach	

Job ID: 880-46630-1 Client: Carmona Resources Project/Site: Markham #001 SDG: Eddy Co, NM

## **HPLC/IC (Continued)**

### Leach Batch: 87054 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-27	BH-3 (3.0')	Soluble	Solid	DI Leach	
880-46630-28	BH-3 (4.0')	Soluble	Solid	DI Leach	
880-46630-29	BH-3 (6.0')	Soluble	Solid	DI Leach	
880-46630-30	BH-3 (8.0')	Soluble	Solid	DI Leach	
MB 880-87054/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87054/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87054/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46630-4 MS	BH-1 (4.0')	Soluble	Solid	DI Leach	
880-46630-4 MSD	BH-1 (4.0')	Soluble	Solid	DI Leach	
880-46630-26 MS	BH-3 (2.0')	Soluble	Solid	DI Leach	
880-46630-26 MSD	BH-3 (2.0')	Soluble	Solid	DI Leach	

### **Analysis Batch: 87115**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-1	BH-1 (0-1')	Soluble	Solid	300.0	87052
880-46630-2	BH-1 (2.0')	Soluble	Solid	300.0	87052
880-46630-3	BH-1 (3.0')	Soluble	Solid	300.0	87052
MB 880-87052/1-A	Method Blank	Soluble	Solid	300.0	87052
LCS 880-87052/2-A	Lab Control Sample	Soluble	Solid	300.0	87052
LCSD 880-87052/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87052
820-14436-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	87052
820-14436-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	87052
820-14436-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	87052
820-14436-A-11-G MS	Matrix Spike	Soluble	Solid	300.0	87052

#### **Analysis Batch: 87128**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-4	BH-1 (4.0')	Soluble	Solid	300.0	87054
880-46630-5	BH-1 (6.0')	Soluble	Solid	300.0	87054
880-46630-6	BH-1 (8.0')	Soluble	Solid	300.0	87054
880-46630-13	BH-2 (0-1')	Soluble	Solid	300.0	87054
880-46630-14	BH-2 (2.0')	Soluble	Solid	300.0	87054
880-46630-15	BH-2 (3.0')	Soluble	Solid	300.0	87054
880-46630-16	BH-2 (4.0')	Soluble	Solid	300.0	87054
880-46630-17	BH-2 (6.0')	Soluble	Solid	300.0	87054
880-46630-18	BH-2 (8.0')	Soluble	Solid	300.0	87054
880-46630-25	BH-3 (0-1')	Soluble	Solid	300.0	87054
880-46630-26	BH-3 (2.0')	Soluble	Solid	300.0	87054
880-46630-27	BH-3 (3.0')	Soluble	Solid	300.0	87054
880-46630-28	BH-3 (4.0')	Soluble	Solid	300.0	87054
880-46630-29	BH-3 (6.0')	Soluble	Solid	300.0	87054
880-46630-30	BH-3 (8.0')	Soluble	Solid	300.0	87054
MB 880-87054/1-A	Method Blank	Soluble	Solid	300.0	87054
LCS 880-87054/2-A	Lab Control Sample	Soluble	Solid	300.0	87054
LCSD 880-87054/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87054
880-46630-4 MS	BH-1 (4.0')	Soluble	Solid	300.0	87054
880-46630-4 MSD	BH-1 (4.0')	Soluble	Solid	300.0	87054
880-46630-26 MS	BH-3 (2.0')	Soluble	Solid	300.0	87054
880-46630-26 MSD	BH-3 (2.0')	Soluble	Solid	300.0	87054

Client: Carmona Resources

Job ID: 880-46630-1

Project/Site: Markham #001

SDG: Eddy Co, NM

### HPLC/IC

### Leach Batch: 87786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-7	BH-1 (10')	Soluble	Solid	DI Leach	
880-46630-19	BH-2 (10')	Soluble	Solid	DI Leach	
880-46630-31	BH-3 (10')	Soluble	Solid	DI Leach	
MB 880-87786/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87786/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87786/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46630-7 MS	BH-1 (10')	Soluble	Solid	DI Leach	
880-46630-7 MSD	BH-1 (10')	Soluble	Solid	DI Leach	

### **Analysis Batch: 87827**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-7	BH-1 (10')	Soluble	Solid	300.0	87786
880-46630-19	BH-2 (10')	Soluble	Solid	300.0	87786
880-46630-31	BH-3 (10')	Soluble	Solid	300.0	87786
MB 880-87786/1-A	Method Blank	Soluble	Solid	300.0	87786
LCS 880-87786/2-A	Lab Control Sample	Soluble	Solid	300.0	87786
LCSD 880-87786/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87786
880-46630-7 MS	BH-1 (10')	Soluble	Solid	300.0	87786
880-46630-7 MSD	BH-1 (10')	Soluble	Solid	300.0	87786

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Job ID: 880-46630-1

SDG: Eddy Co, NM

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

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

Client: Carmona Resources

Project/Site: Markham #001

Lab Sample ID: 880-46630-1

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 17:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 17:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 23:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/30/24 23:40	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	87052	07/30/24 11:37	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87115	08/01/24 02:06	SMC	EET MID

Client Sample ID: BH-1 (2.0') Lab Sample ID: 880-46630-2 Date Collected: 07/29/24 00:00

Date Received: 07/30/24 08:30

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 18:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 18:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 23:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/30/24 23:55	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87052	07/30/24 11:37	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87115	08/01/24 02:12	SMC	EET MID

Client Sample ID: BH-1 (3.0') Lab Sample ID: 880-46630-3 Date Collected: 07/29/24 00:00 **Matrix: Solid** 

Date Received: 07/30/24 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 18:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 18:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/31/24 00:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/31/24 00:26	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	87052	07/30/24 11:37	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87115	08/01/24 02:17	SMC	EET MID

Client Sample ID: BH-1 (4.0')

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

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	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 18:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 18:50	SM	EET MID

**Eurofins Midland** 

Matrix: Solid

Lab Sample ID: 880-46630-4

Project/Site: Markham #001

Client: Carmona Resources

Lab Sample ID: 880-46630-4

**Matrix: Solid** 

Client Sample ID: BH-1 (4.0') Date Collected: 07/29/24 00:00

Date Received: 07/30/24 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			87122	07/31/24 00:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/31/24 00:41	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	87128	08/02/24 00:00	SMC	EET MID

Lab Sample ID: 880-46630-5

**Matrix: Solid** 

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

Client Sample ID: BH-1 (6.0')

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 19:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 19:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/31/24 00:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/31/24 00:56	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	87128	08/02/24 00:24	SMC	EET MID

Client Sample ID: BH-1 (8.0') Lab Sample ID: 880-46630-6 Date Collected: 07/29/24 00:00 **Matrix: Solid** 

Date Received: 07/30/24 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 19:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 19:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/31/24 01:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/31/24 01:12	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87128	08/02/24 00:32	SMC	EET MID

Client Sample ID: BH-1 (10') Lab Sample ID: 880-46630-7 Date Collected: 07/29/24 00:00 **Matrix: Solid** 

Date Received: 07/30/24 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87616	08/06/24 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87664	08/06/24 20:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	08/06/24 20:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	08/08/24 06:38	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	87592 87745	08/06/24 08:20 08/08/24 06:38	EL TKC	EET MID EET MID

Project/Site: Markham #001

Client Sample ID: BH-1 (10')

Date Collected: 07/29/24 00:00

Lab Sample ID: 880-46630-7

Matrix: Solid

Date Received: 07/30/24 08:30

Client: Carmona Resources

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	87786	08/07/24 16:11	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87827	08/08/24 17:59	CH	EET MID

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

Lab Sample ID: 880-46630-13

Date Collected: 07/29/24 00:00 Matrix: Solid
Date Received: 07/30/24 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 19:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 19:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/31/24 01:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/31/24 01:28	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87128	08/02/24 00:40	SMC	EET MID

Client Sample ID: BH-2 (2.0')

Lab Sample ID: 880-46630-14

Date Collected: 07/29/24 00:00 Matrix: Solid
Date Received: 07/30/24 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 20:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 20:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/31/24 01:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/31/24 01:43	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87128	08/02/24 00:48	SMC	EET MID

Client Sample ID: BH-2 (3.0') Lab Sample ID: 880-46630-15

Date Collected: 07/29/24 00:00 Matrix: Solid
Date Received: 07/30/24 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 20:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 20:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/31/24 01:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/31/24 01:58	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87128	08/02/24 01:12	SMC	EET MID

**Eurofins Midland** 

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Client: Carmona Resources Project/Site: Markham #001 Client Sample ID: BH-2 (4.0')

Lab Sample ID: 880-46630-16

**Matrix: Solid** 

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 20:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 20:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 21:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87035	07/30/24 10:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87032	07/30/24 21:04	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87128	08/02/24 01:19	SMC	EET MID

Client Sample ID: BH-2 (6.0') Lab Sample ID: 880-46630-17

Date Collected: 07/29/24 00:00 **Matrix: Solid** 

Date Received: 07/30/24 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 22:28	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 22:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 21:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87035	07/30/24 10:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87032	07/30/24 21:51	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87128	08/02/24 12:46	SMC	EET MID

Client Sample ID: BH-2 (8.0') Lab Sample ID: 880-46630-18 Date Collected: 07/29/24 00:00 **Matrix: Solid** 

Date Received: 07/30/24 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 22:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 22:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 22:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87035	07/30/24 10:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87032	07/30/24 22:07	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87128	08/02/24 12:54	SMC	EET MID

Client Sample ID: BH-2 (10') Lab Sample ID: 880-46630-19 Date Collected: 07/29/24 00:00 **Matrix: Solid** 

Date Received: 07/30/24 08:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	87616	08/06/24 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87664	08/06/24 21:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	08/06/24 21:03	SM	EET MID

Client: Carmona Resources

Job ID: 880-46630-1 SDG: Eddy Co, NM

Project/Site: Markham #001

Client Sample ID: BH-2 (10')

Date Collected: 07/29/24 00:00

Lab Sample ID: 880-46630-19

Date Received: 07/30/24 08:30

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			87122	08/08/24 06:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87592	08/06/24 08:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87745	08/08/24 06:55	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87786	08/07/24 16:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87827	08/08/24 18:15	CH	EET MID

Client Sample ID: BH-3 (0-1') Lab Sample ID: 880-46630-25

Date Collected: 07/29/24 00:00 Matrix: Solid

Date Received: 07/30/24 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 23:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 23:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 22:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	87035	07/30/24 10:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87032	07/30/24 22:22	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87128	08/02/24 01:43	SMC	EET MID

Client Sample ID: BH-3 (2.0')

Date Collected: 07/29/24 00:00

Lab Sample ID: 880-46630-26

Matrix: Solid

Date Received: 07/30/24 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 23:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 23:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 22:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87035	07/30/24 10:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87032	07/30/24 22:38	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87128	08/02/24 01:51	SMC	EET MID

Client Sample ID: BH-3 (3.0')

Date Collected: 07/29/24 00:00

Lab Sample ID: 880-46630-27

Matrix: Solid

Date Received: 07/30/24 08:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 23:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 23:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 22:53	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g 1 uL	10 mL 1 uL	87035 87032	07/30/24 10:55 07/30/24 22:53	EL TKC	EET MID EET MID

**Eurofins Midland** 

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Client Sample ID: BH-3 (3.0')

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

Client: Carmona Resources

Project/Site: Markham #001

Lab Sample ID: 880-46630-27

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87128	08/02/24 02:15	SMC	EET MID

Lab Sample ID: 880-46630-28 Client Sample ID: BH-3 (4.0') Matrix: Solid

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/31/24 00:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/31/24 00:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 23:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87035	07/30/24 10:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87032	07/30/24 23:09	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87128	08/02/24 02:23	SMC	EET MID

Lab Sample ID: 880-46630-29 Client Sample ID: BH-3 (6.0') **Matrix: Solid** 

Date Collected: 07/29/24 00:00 Date Received: 07/30/24 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/31/24 00:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/31/24 00:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 23:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87035	07/30/24 10:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87032	07/30/24 23:24	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87054	07/30/24 11:56	SA	EET MID

Client Sample ID: BH-3 (8.0') Lab Sample ID: 880-46630-30 Date Collected: 07/29/24 00:00 **Matrix: Solid** 

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50 mL

87128

08/02/24 02:47 SMC

50 mL

Date Received: 07/30/24 08:30

Analysis

300.0

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/31/24 00:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/31/24 00:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 23:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87035	07/30/24 10:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87032	07/30/24 23:40	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87128	08/02/24 02:55	SMC	EET MID

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**EET MID** 

### **Lab Chronicle**

Client: Carmona Resources Job ID: 880-46630-1 Project/Site: Markham #001 SDG: Eddy Co, NM

Client Sample ID: BH-3 (10')

Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-31 Date Collected: 07/29/24 00:00

**Matrix: Solid** 

Batch Dil Batch Batch Initial Final Prepared Method Factor **Prep Type** Type Run **Amount Amount** Number or Analyzed Analyst Lab Total/NA 5035 87616 08/06/24 11:12 EET MID Prep 4.95 g 5 mL MNR Total/NA 8021B 87664 Analysis 1 5 mL 5 mL 08/06/24 21:24 MNR EET MID Total/NA Analysis Total BTEX 1 87163 08/06/24 21:24 SM **EET MID** Total/NA Analysis 8015 NM 1 87122 08/07/24 01:50 SM **EET MID** Total/NA Prep 8015NM Prep 10.04 g 10 mL 87612 08/06/24 10:46 EL **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 87595 08/07/24 01:50 TKC **EET MID** Soluble Leach DI Leach 5.03 g 50 mL 87786 08/07/24 16:11 SA **EET MID** Soluble 300.0 50 mL 87827 **EET MID** Analysis 50 mL 08/08/24 18:20 CH

#### **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: 880-46630-1

Project/Site: Markham #001

SDG: Eddy Co, NM

### **Laboratory: Eurofins Midland**

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

Authority	Progra	am	Identification Number	<b>Expiration Date</b>
Texas	NELAI	Р	T104704400	06-30-25
The following analyte:	s are included in this reno	rt but the laboratory is r	not certified by the governing authori	ity. This list may include an
0 ,	does not offer certification	•	tot certified by the governing authori	ity. This list may include a
0 ,	•	•	Analyte	ry. This list may molde a
for which the agency	does not offer certification	I.	, , ,	

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## **Method Summary**

Client: Carmona Resources Project/Site: Markham #001 Job ID: 880-46630-1

SDG: Eddy Co, NM

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
00.0	Anions, Ion Chromatography	EPA	EET MID
035	Closed System Purge and Trap	SW846	EET MID
015NM Prep	Microextraction	SW846	EET MID
I 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

BH-3 (10')

880-46630-31

## **Sample Summary**

Client: Carmona Resources Project/Site: Markham #001 Job ID: 880-46630-1 SDG: Eddy Co, NM

ddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-46630-1	BH-1 (0-1')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-2	BH-1 (2.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-3	BH-1 (3.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-4	BH-1 (4.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-5	BH-1 (6.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-6	BH-1 (8.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-7	BH-1 (10')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-13	BH-2 (0-1')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-14	BH-2 (2.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-15	BH-2 (3.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-16	BH-2 (4.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-17	BH-2 (6.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-18	BH-2 (8.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-19	BH-2 (10')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-25	BH-3 (0-1')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-26	BH-3 (2.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-27	BH-3 (3.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-28	BH-3 (4.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-29	BH-3 (6.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-30	BH-3 (8.0')	Solid	07/29/24 00:00	07/30/24 08:30

Solid

07/29/24 00:00 07/30/24 08:30

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5 3	Jag.	elinquished by: (Sigr			BH-1 (16')	BH-1 (14')	BH-1 (12')	BH-1 (10')	BH-1 (8.0')	BH-1 (6.0')	BH-1 (4.0')	BH-1 (3.0')	BH-1 (2.0')	BH-1 (0-1')	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name:	Project Location	Project Number:	Project Name:	Phone: 432-8	City, State ZIP: Midlar	Address: 310 W	Company Name: Carmo	Project Manager: Ashto
		(Signature)			7/29/2024	7/29/2024	7/29/2024	7/29/2024	7/29/2024	7/29/2024	7/29/2024	7/29/2024	7/29/2024	7/29/2024	on Date		Yes No NIA	Yes No MA	Yes No	Temp Blank:		IR & CMM	Eddy Co, NM	2408	Markham #001	432-813-8988	Midland, TX 79701	310 West Wall Ste. 500	Carmona Resources	Ashton Thielke
6	P	Received by: (Signature)		Please send results to cmoehring@carmonaresources.com and mcarm	×	×	×	×	×	×	×	×	×	×	Time Soil	Corrected Temperature:	Temperature Reading:	Correction Factor:	Thermometer ID:	Yes No Wet Ice:	lab, if rec	TAT starts th	Due Date:	✓Routine	Tu	Email:				
		iture)		s to cmoehring@c	G	G	G	ရ	G	G	G	G	ရ	G	Water Comp	- A	2	- ,	100	Yes No	lab, if received by 4:30pm	TAT starts the day received by the	Normal	Rush	Turn Around	il: ThielkeA@Carmonaresources	City, State ZIP:	Address:	Company Name:	Bill to: (if different)
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	24 0	)ate/Time		source	╟		-		×	×	×	×	×	×	ТР	H 80	_	( GI		DRO	) + P	MRO	)			ces.com				Carmona Resources
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		nature)		onaresc		-		-			-		$\vdash$				_								REQUES	Deli	Rep	Stat	Pro	
		Received by: (Signature)		ona@carmonaresources.com																					1	Deliverables: EDD	Reporting:Level II Level III LPST/UST	State of Project:	Program: UST/PST ☐PRP ☐Brownfields ☐RRC	Work
		(Signatu			<b> </b>	×	×	×										Н	OLD	)						ADaPT L	L PS	]	Brow	Order (
-		ıre)													Sample	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	NaHSO <sub>4</sub> : NABIS	H₃PO₄: HP	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	HCL: HC	Cool: Cool	None: NO	Preserva	T L Other:	Г		nfields RRC	Work Order Comments
		Date/Time													Sample Comments	ic Acid: SAPC	3OH: Zn	03	S		NaOH: Na	HNO <sub>3:</sub> HN	MeOH: Me	DI Water: H <sub>2</sub> O	Preservative Codes	1 5	Level IV	_	uperfund	

Wo	
880-46630 Chain of Custody	

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company Name:	Carmona Resources	ources			Company Name	ne:							Program: UST/PST ☐PRP ☐Brownfields ☐RRC	JST/PST [	PRP	Brown	fields ⊟R	RCuperf	erf.
Address:	310 West Wall Ste. 500	II Ste. 500			Address:								State of Project:	oject:					
City, State ZIP:	Midland, TX 79701	9701			City, State ZIP								Reporting:Level III Level III PST/UST	evel II 🗌	Level III	□st/	UST []RRP	RP   Level	evel
Phone:	432-813-8988			Email:		armonares	sources.	com					Deliverables: EDD	); EDD [		ADaPT 🗆	İ	Other:	
Project Name:	M.	Markham #001		Tun	Turn Around					>	NALY	NALYSIS REQUEST	UEST				Prese	Preservative Code	ode
Project Number:		2408		✓ Routine	Rush	Pres. Code											None: NO	DI Water	ater
Project Location	E	Eddy Co, NM		Due Date:	Normal			)									Cool: Cool	MeOH: N	Ξ
Sampler's Name:		IR & CMM		TAT starts the	day received by t	the		IRO)									HCL: HC	HNO <sub>3</sub> : H	آب I
PO#.				lab, if rece	lab, if received by 4:30pm			+ N	-								H₂S0₄: H₂	NaOH: N	I.
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet ice:	Yes No	nete	1B	DRO	JU.U								H₃PO₄: HP		
Received Intact:	Y	Yes No	Thermometer ID:	ter ID:		ırar	802		ie 31						_	LD	NaHSO <sub>4</sub> : NABIS	ABIS	
Cooler Custody Seals:	Ye	No N/A	Correction Factor:	Factor:		Pa	TEX	_	lorio								Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	aSO <sub>3</sub>	
Sample Custody Seals:	als: Yes	No N/A	Temperatu	Temperature Reading:			В	-									Zn Acetate+NaOH: Zn	NaOH: Zn	
Total Containers:			Corrected	Corrected Temperature:				801									NaOH+Ascorbic Acid: SAP	orbic Acid: S	SAF
Sample Identification	ntification	Date	Time	Soil	Water Grab/	# of		TPI									Samp	Sample Commen	ent
BH-1 (18')	(18')	7/29/2024		×	G .				+					4	+	×			
BH-1 (20')	(20')	7/29/2024		×	G										_	×			
BH-2 (0-1')	(0-1')	7/29/2024		×	9	1	×	×	×										
BH-2 (2.0')	(2.0')	7/29/2024		×	G	1	×	×	×										
BH-2 (3.0')	(3.0')	7/29/2024		×	G	1	×	×	×										
BH-2 (4.0')	(4.0')	7/29/2024		×	G	1	×	×	×										
BH-2 (6.0')	(6.0')	7/29/2024		×	G	<u>-</u>	×	×	×										
BH-2 (8.0')	(8.0')	7/29/2024		×	G		×	×	×										
BH-2 (10')	(10')	7/29/2024		×	G	<u>-</u>										×			
BH-2 (12')	(12')	7/29/2024		×	6				-							×			
			Please s	end results	Please send results to cmoehring@carmonaresources.com and mcarm	g@carmo	naresou	rces.c	om and	mcarm	ona@c	carmona	ona@carmonaresources.com	com					
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Work Order No: \_\_

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Project Manager: Company Name:

Ashton Thielke
Carmona Resources

Bill to: (if different)
Company Name:

Carmona Resources

Program: UST/PST PRP Brownfields RRC

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**Work Order Comments** 

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Turn Around   Preservati   Pr											
Turn Around		iresources.com	and mcarmona@carmona	esources.com	carmonare	cmoehring@	send results to	Please			
Time   Soil   Water   Comp   Cont											
Tum Around   Preservativ   Code   Cool   C											
Trum Around   Preservative   Pres											
Tum Around   Preservativ   Code   C	>				_	G	×		7/29/2024	(20')	BH-3
Turn Around   Preservativ	× ×				_	G	×		7/29/2024	(18')	BH-3 (18')
Turn Around	×				-	ဓ	×		7/29/2024	(16')	BH-3 (16')
Trum Around   Preservative   Pres	×				_	G	×		7/29/2024	(14')	BH-3 (14')
Tum Around   Pres.	×				1	G	×		7/29/2024	(12')	BH-3 (12')
Turn Around   Pres.   Pres.   Nommal   None: NO   Non	×				1	G	×		7/29/2024	(10')	BH-3 (10')
Turn Around				TP	# of Cont			Time	Date	ntification	Sample Identification
ANALYSIS REQUEST  Preservative Due Date:   Rush   Code   Rush   Code   Rush   Code   Rush   R	NaOH+Ascorbic Acid: SAPC			H 80			Temperature:	Corrected			Total Containers:
Turn Around	Zn Acetate+NaOH: Zn			15M			ure Reading:	Temperat	No N/A	als: Yes	Sample Custody Seals:
Tum Around  ANALYSIS REQUEST  Preservati  Analysis Request  None: No  None:				( G			Factor:	Correction	No N/A	ils: Yes No	Cooler Custody Seals:
Turn Around  ANALYSIS REQUEST  Preservati  Preservati  None: NO  Cool: Cool  HCL: HC  H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> Preservati  None: NO  Wet loe: Yes No  Pres.  ANALYSIS REQUEST  None: NO  None: NO  Cool: Cool  HCL: HC  H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP				RO 4			eter ID:	Thermom	es No	Yes	Received Intact:
Turn Around  ANALYSIS REQUEST  Preservative None: NO  Code  Due Date: Normal  TAT starts the day received by 4:30pm lab, if received by 4:30pm 2				- DR			-	Yes No	Temp Blank:		SAMPLE RECEIPT
Turn Around  Preservative    Code   Code   Code   Code     Tat starts the day received by the   Tat starts the day received by the   Preservative   Preserva				O + I	ers	d by 4:30pm	lab, if received				PO#:
Turn Around  Pres.  Preservative Code  Due Date: Normal  ANALYSIS REQUEST  ANALYSIS REQUEST  Solution Preservative None: NO  Cool: Cool				MRO		received by the	TAT starts the day		IR & CMM	_	Sampler's Name:
Turn Around  Pres.  Pres.  Pres.  None: NO	<u>∪</u>			)		Normal	Due Date:		Eddy Co, NM	Ec	Project Location
Turn Around ANALYSIS REQUEST					Code	Rush	√Routine [		2408		Project Number:
	Preservative Codes	UEST	ANALYSIS REQ			round	Turn A		Markham #001	Ma	Project Name:
Email: ThielkeA@Carmonaresources.com   Deliverables: EDD L.J. ADaPT L.J. Otter:	Ш	Deliverables: EDD L		ces.com	onaresour	nielkeA@Carm				432-813-8988	Phone:
	7	Reporting:Level II   Lev				ty, State ZIP:	C		9701	Midland, TX 79701	City, State ZIP:
Address: State of Project:		State of Project:				idress:	Ac		Ste. 500	310 West Wall Ste. 500	Address:
Company Name: Program: UST/PST PRP Brownfields RRC Luperfund		Program: UST/PST   P				ompany Name:	Cc		ources	Carmona Resources	Company Name:
Bill to: (if different) Carmona Resources Work Order Comments	fork Order Comments	Wo	S	armona Resource	Ca	to: (if different)	Bi			Ashton Thielke	Project Manager:

Revised Date 05012020 Rev. 2020.

8/12/2024 (Rev. 1)

### **Login Sample Receipt Checklist**

Client: Carmona Resources Job Number: 880-46630-1 SDG Number: Eddy Co, NM

**List Source: Eurofins Midland** Login Number: 46630

List Number: 1

Creator: Vasquez, Julisa

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



October 02, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MARKHAM #001

Enclosed are the results of analyses for samples received by the laboratory on 10/01/24 15:32.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keene

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



#### Analytical Results For:

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

Received: 10/01/2024 Reported: 10/02/2024

Project Name: MARKHAM #001

Project Number: 2408

Project Location: EDDY CO, NM

Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

#### Sample ID: CS - 1 (10.0') (H245963-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/02/2024	ND	416	104	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	10/01/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.7	% 49.1-14	8						

Applyand By 14

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

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

Received: 10/01/2024 Reported: 10/02/2024

MARKHAM #001

Project Name: MARK Project Number: 2408

Project Location: EDDY CO, NM

Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

#### Sample ID: CS - 2 (10.0') (H245963-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/02/2024	ND	416	104	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	10/01/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					
Surrogate: 1-Chlorooctane	96.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.2	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/01/2024 Reported: 10/02/2024

MARKHAM #001

Project Name: Project Number: 2408

Project Location: EDDY CO, NM Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

#### Sample ID: CS - 3 (10.0') (H245963-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/02/2024	ND	432	108	400	7.14	
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	10/01/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.0	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/01/2024 Reported: 10/02/2024

Project Name: MARKHAM #001

Project Number: 2408

Project Location: EDDY CO, NM Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

#### Sample ID: CS - 4 (10.0') (H245963-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/02/2024	ND	432	108	400	7.14	
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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					
Surrogate: 1-Chlorooctane	92.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.9	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/01/2024 Reported: 10/02/2024

Project Name: MARKHAM #001

Project Number: 2408

Project Location: EDDY CO, NM

Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

#### Sample ID: CS - 5 (10.0') (H245963-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/02/2024	ND	432	108	400	7.14	
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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					
Surrogate: 1-Chlorooctane	96.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.0	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/01/2024 Reported: 10/02/2024

Project Name: MARKHAM #001

Project Number: 2408

Project Location: EDDY CO, NM Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

#### Sample ID: CS - 6 (10.0') (H245963-06)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/02/2024	ND	432	108	400	7.14	
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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					
Surrogate: 1-Chlorooctane	91.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.2	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/01/2024

Reported: 10/02/2024

Project Name: MARKHAM #001

Project Number: 2408

Project Location: EDDY CO, NM

Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

### Sample ID: CS - 7 (12.0') (H245963-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/02/2024	ND	432	108	400	7.14	
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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					
Surrogate: 1-Chlorooctane	87.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.0	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/01/2024 Reported: 10/02/2024

MARKHAM #001

Project Name: MARk Project Number: 2408

Project Location: EDDY CO, NM

Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

#### Sample ID: CS - 8 (12.0') (H245963-08)

BTEX 8021B

DILX OUZID	iiig/	K9	Andryzo	.u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/02/2024	ND	432	108	400	7.14	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					
Surrogate: 1-Chlorooctane	98.6	% 48.2-13	4						

Analyzed By: JH

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#### Analytical Results For:

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

10/01/2024 Reported: 10/02/2024

Project Name: MARKHAM #001

Project Number: 2408

Received:

RTFY 8021R

Project Location: EDDY CO, NM Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

#### Sample ID: SW - 1 (10.0') (H245963-09)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/02/2024	ND	432	108	400	7.14	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					
Surrogate: 1-Chlorooctane	90.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.0	% 49.1-14	8						

Applyzod By: 14

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#### Analytical Results For:

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

Received: 10/01/2024 Reported: 10/02/2024

MARKHAM #001

Project Name: MARk Project Number: 2408

Project Location: EDDY CO, NM

Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW - 2 (10.0') (H245963-10)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/02/2024	ND	432	108	400	7.14	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.9	% 49.1-14	8						

Applyzod By: 14

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#### Analytical Results For:

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

Received: 10/01/2024 Reported: 10/02/2024

MARKHAM #001

Project Name: MARk Project Number: 2408

Project Location: EDDY CO, NM

Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

#### Sample ID: SW - 3 (10.0') (H245963-11)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/02/2024	ND	432	108	400	7.14	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.4	% 49.1-14	8						

Applyzod By: 14

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#### Analytical Results For:

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

10/01/2024

Reported: 10/02/2024

Project Name: MARKHAM #001

Project Number: 2408

Received:

RTFY 8021R

Project Location: EDDY CO, NM Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

#### Sample ID: SW - 4 (10.0') (H245963-12)

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/02/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/02/2024	ND	432	108	400	7.14	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					
Surrogate: 1-Chlorooctane	91.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.0	% 49.1-14	8						

Applyzod By: 14

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#### Analytical Results For:

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

Received: 10/01/2024 Reported: 10/02/2024

MARKHAM #001

Project Name: MARk Project Number: 2408

Project Location: EDDY CO, NM

Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

#### Sample ID: SW - 5 (10.0') (H245963-13)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/02/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/02/2024	ND	432	108	400	7.14	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.1	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/01/2024 Reported: 10/02/2024

Project Name: MARKHAM #001

Project Number: 2408

Project Location: EDDY CO, NM

Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

#### Sample ID: SW - 6 (10.0') (H245963-14)

RTFY 8021R

Analyte ene* ne* nenzene* Xylenes* BTEX	Result <0.050 <0.050 <0.050 <0.150	0.050 0.050 0.050	Analyzed 10/02/2024 10/02/2024	Method Blank ND ND	BS 2.08	% Recovery	True Value QC 2.00	RPD 0.280	Qualifier
ne* penzene* Xylenes*	<0.050 <0.050	0.050	10/02/2024				2.00	0.280	
oenzene* Xylenes*	<0.050			ND	2.02			3.200	
Xylenes*		0.050	10/02/2024		2.03	102	2.00	0.471	
	<0.150		10/02/2024	ND	2.10	105	2.00	0.112	
BTEX		0.150	10/02/2024	ND	6.34	106	6.00	0.733	
	<0.300	0.300	10/02/2024	ND					
gate: 4-Bromofluorobenzene (1	PID 106 %	71.5-13-	4						
de, SM4500Cl-B	mg/k	g	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ide	80.0	16.0	10/02/2024	ND	432	108	400	7.14	
015M	mg/k	g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
C6-C10*	<10.0	10.0	10/02/2024	ND	226	113	200	8.97	
>C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
PRO >C28-C36	<10.0	10.0	10/02/2024	ND					
	87.6 %	48.2-13-	4						
gate: 1-Chlorooctane	07.070								
PRO >C28-C36				ND				_	

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#### Analytical Results For:

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

Received: 10/01/2024 Reported: 10/02/2024

MARKHAM #001

Project Number: 2408

Project Name:

RTFY 8021R

Project Location: EDDY CO, NM

Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW - 7 (10.0') (H245963-15)

B1EX 8021B	mg/	кg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/02/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/02/2024	ND	432	108	400	7.14	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					
Surrogate: 1-Chlorooctane	93.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.0	% 49.1-14	8						

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#### Analytical Results For:

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

10/01/2024

Reported: 10/02/2024

Project Name: MARKHAM #001

Project Number: 2408

Received:

Project Location: EDDY CO, NM

Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

#### Sample ID: SW - 8 (10.0') (H245963-16)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/02/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/02/2024	ND	432	108	400	7.14	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.7	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/01/2024 Reported: 10/02/2024

Project Name: MARKHAM #001

Project Number: 2408

Project Location: EDDY CO, NM Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

#### Sample ID: SW - 9 (12.0') (H245963-17)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/02/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/02/2024	ND	432	108	400	7.14	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.5	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/01/2024 Reported: 10/02/2024

MARKHAM #001

Project Number: 2408

Project Name:

RTFY 8021R

Project Location: EDDY CO, NM

Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW - 10 (12.0') (H245963-18)

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.09	105	2.00	2.15	
Toluene*	<0.050	0.050	10/01/2024	ND	2.16	108	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.21	110	2.00	0.837	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.66	111	6.00	0.394	
Total BTEX	<0.300	0.300	10/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/02/2024	ND	432	108	400	7.14	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					
Surrogate: 1-Chlorooctane	95.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.5	% 49.1-14	8						

Applyzod By: 14

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#### Analytical Results For:

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

Received: 10/01/2024 Reported: 10/02/2024

Project Name: MARKHAM #001

Project Number: 2408

Project Location: EDDY CO, NM

Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

#### Sample ID: SW - 11 (12.0') (H245963-19)

RTFY 8021R

Result < 0.050 < 0.050	Reporting Limit 0.050	Analyzed 10/01/2024	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	0.050	10/01/2024						
<0.050		-, - ,	ND	2.09	105	2.00	2.15	
	0.050	10/01/2024	ND	2.16	108	2.00	1.16	
<0.050	0.050	10/01/2024	ND	2.21	110	2.00	0.837	
<0.150	0.150	10/01/2024	ND	6.66	111	6.00	0.394	
<0.300	0.300	10/01/2024	ND					
106 9	% 71.5-13	4						
mg/	'kg	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
80.0	16.0	10/02/2024	ND	432	108	400	7.14	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	10/02/2024	ND	226	113	200	8.97	
<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
<10.0	10.0	10/02/2024	ND					
100 9	26 48.2-13	4						
89.1	% 49.1-14	8						
	<0.050 <0.150 <0.300  1069 mg/ Result 80.0 mg/ Result <10.0 <10.0	<0.050 0.050 <0.150 0.150 <0.300 0.300  106	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Applyzod By: 14

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#### Analytical Results For:

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

Received: 10/01/2024 Reported: 10/02/2024

MARKHAM #001

Project Name: MARk Project Number: 2408

Project Location: EDDY CO, NM

Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW - 12 (12.0') (H245963-20)

RTFY 8021R

B1EX 8021B	mg,	кg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.09	105	2.00	2.15	
Toluene*	<0.050	0.050	10/01/2024	ND	2.16	108	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.21	110	2.00	0.837	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.66	111	6.00	0.394	
Total BTEX	<0.300	0.300	10/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/02/2024	ND	432	108	400	7.14	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					
Surrogate: 1-Chlorooctane	89.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.3	% 49.1-14	8						

Applyzod By: 14

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#### Analytical Results For:

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

10/01/2024

Reported: 10/02/2024

Project Name: MARKHAM #001

Project Number: 2408

Received:

Project Location: EDDY CO, NM

Sampling Date: 10/01/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

#### Sample ID: SW - 13 (10.0-12.0') (H245963-21)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.09	105	2.00	2.15	
Toluene*	<0.050	0.050	10/01/2024	ND	2.16	108	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.21	110	2.00	0.837	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.66	111	6.00	0.394	
Total BTEX	<0.300	0.300	10/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/02/2024	ND	432	108	400	7.14	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2024	ND	201	100	200	5.15	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	195	97.5	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					
Surrogate: 1-Chlorooctane	84.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.9	% 49.1-14	8						

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#### **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

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NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC  Sample Comments  Date/Time	HNO <sub>3</sub> : HN	DI Water: H <sub>2</sub> O	Preservative Codes			Level IV		uperfund	of 3

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

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

Generated 10/11/2024 2:33:20 PM

# **JOB DESCRIPTION**

Markham #001 Eddy Co, NM

# **JOB NUMBER**

880-49611-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

# **Eurofins Midland**

### **Job Notes**

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

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

# **Authorization**

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Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 Client: Carmona Resources Laboratory Job ID: 880-49611-1 Project/Site: Markham #001

SDG: Eddy Co, NM

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### **Definitions/Glossary**

Job ID: 880-49611-1 Client: Carmona Resources Project/Site: Markham #001 SDG: Eddy Co, NM

**Qualifiers** 

**GC VOA** Qualifier **Qualifier Description** 

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

**GC Semi VOA** 

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

**HPLC/IC** 

Qualifier **Qualifier Description** 

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

DFR 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

Decision Level Concentration (Radiochemistry) DLC

**EDL** Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL 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

Toxicity Equivalent Factor (Dioxin) TEF TEQ Toxicity Equivalent Quotient (Dioxin)

**TNTC** Too Numerous To Count

**Eurofins Midland** 

### **Case Narrative**

Client: Carmona Resources Project: Markham #001

Job ID: 880-49611-1

**Eurofins Midland** Job ID: 880-49611-1

#### Job Narrative 880-49611-1

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

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

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

#### Receipt

The sample was received on 10/10/2024 8:21 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -3.7°C.

#### **GC VOA**

Method 8021B: The laboratory control sample duplicate (LCSD) associated with preparation batch 880-92936 and analytical batch 880-92939 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-92936 and analytical batch 880-92939 was outside the upper control limits.

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

### **Diesel Range Organics**

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-92947/2-A) and (LCSD 880-92947/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The continuing calibration verification (CCV) associated with batch 880-93006 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-93006/21).

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.

**Eurofins Midland** 

### **Client Sample Results**

Client: Carmona Resources Job ID: 880-49611-1 Project/Site: Markham #001 SDG: Eddy Co, NM

**Client Sample ID: Lealand Backfill** 

Date Collected: 10/09/24 00:00 Date Received: 10/10/24 08:21

Lab Sample ID: 880-49611-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		10/10/24 09:20	10/10/24 18:03	
Toluene	<0.00198	U	0.00198		mg/Kg		10/10/24 09:20	10/10/24 18:03	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/10/24 09:20	10/10/24 18:03	
m-Xylene & p-Xylene	< 0.00396	U	0.00396		mg/Kg		10/10/24 09:20	10/10/24 18:03	
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		10/10/24 09:20	10/10/24 18:03	
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/10/24 09:20	10/10/24 18:03	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	115		70 - 130				10/10/24 09:20	10/10/24 18:03	
1,4-Difluorobenzene (Surr)	104		70 - 130				10/10/24 09:20	10/10/24 18:03	
Method: TAL SOP Total BTEX - <sup>-</sup>	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
					mg/Kg			10/10/24 18:03	
Method: SW846 8015 NM - Diese		ics (DRO) (	•						
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte	el Range Organ	ics (DRO) (	GC)	MDL		<u>D</u>	Prepared		Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <49.9	ics (DRO) (Gualifier	GC) RL 49.9	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die	el Range Organ Result 49.9 sel Range Organ	ics (DRO) (Gualifier	GC) RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte  Gasoline Range Organics	el Range Organ Result 49.9 sel Range Organ	Qualifier Unics (DRO) Qualifier	GC)  RL 49.9		Unit mg/Kg			Analyzed 10/10/24 19:29	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <a href="#">&lt;49.9</a> sel Range Orga Result	Qualifier U nics (DRO) Qualifier U u U U U U U U U U U U U U U U U U U	GC)  RL 49.9  (GC) RL		Unit mg/Kg		Prepared	Analyzed 10/10/24 19:29 Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 49.9 sel Range Orga Result <49.9	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	GC)  RL 49.9  (GC)  RL 49.9		Unit mg/Kg  Unit mg/Kg		Prepared 10/10/24 09:17	Analyzed 10/10/24 19:29  Analyzed 10/10/24 19:29	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	el Range Organ Result 49.9 sel Range Orga Result  49.9 49.9	Company (Company) (Company	GC)  RL 49.9  (GC)  RL 49.9  49.9		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 10/10/24 09:17 10/10/24 09:17	Analyzed 10/10/24 19:29  Analyzed 10/10/24 19:29 10/10/24 19:29	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	el Range Organ Result 49.9 sel Range Orga Result  49.9 449.9	Company (Company) (Company	GC)  RL 49.9  (GC)  RL 49.9  49.9  49.9		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 10/10/24 09:17 10/10/24 09:17 10/10/24 09:17	Analyzed 10/10/24 19:29  Analyzed 10/10/24 19:29 10/10/24 19:29 10/10/24 19:29	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	sel Range Organ Result <49.9  sel Range Orga Result <49.9  <49.9  <49.9  %Recovery	Company (Company) (Company	GC)  RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 10/10/24 09:17 10/10/24 09:17 10/10/24 09:17 Prepared	Analyzed 10/10/24 19:29  Analyzed 10/10/24 19:29 10/10/24 19:29 10/10/24 19:29 Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	el Range Organ	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U  Qualifier	GC)  RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits 70 - 130 70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 10/10/24 09:17 10/10/24 09:17 10/10/24 09:17  Prepared 10/10/24 09:17	Analyzed 10/10/24 19:29  Analyzed 10/10/24 19:29 10/10/24 19:29 10/10/24 19:29  Analyzed 10/10/24 19:29	Dil Fa

5.05

mg/Kg

7.86

10/10/24 12:25

Chloride

### **Surrogate Summary**

Client: Carmona Resources Job ID: 880-49611-1 Project/Site: Markham #001 SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Re
		BFB1	DFBZ1	-
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-49596-A-1-B MS	Matrix Spike	109	102	
880-49596-A-1-C MSD	Matrix Spike Duplicate	109	98	
880-49611-1	Lealand Backfill	115	104	
LCS 880-92936/1-A	Lab Control Sample	103	97	
LCSD 880-92936/2-A	Lab Control Sample Dup	110	98	
MB 880-92936/5-A	Method Blank	155 S1+	112	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-49609-A-1-E MS	Matrix Spike	107	106
880-49609-A-1-F MSD	Matrix Spike Duplicate	106	107
880-49611-1	Lealand Backfill	119	107
LCS 880-92947/2-A	Lab Control Sample	102	158 S1+
LCSD 880-92947/3-A	Lab Control Sample Dup	102	155 S1+
MB 880-92947/1-A	Method Blank	112	105

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

## QC Sample Results

Job ID: 880-49611-1 Client: Carmona Resources Project/Site: Markham #001 SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-92936/5-A

Lab Sample ID: LCS 880-92936/1-A

**Matrix: Solid** 

Analysis Batch: 92939

**Matrix: Solid** Analysis Batch: 92939 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 92936

ı		MB	MR							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200		mg/Kg		10/10/24 08:08	10/10/24 11:37	1
	Toluene	<0.00200	U	0.00200		mg/Kg		10/10/24 08:08	10/10/24 11:37	1
	Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/10/24 08:08	10/10/24 11:37	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/10/24 08:08	10/10/24 11:37	1
	o-Xylene	<0.00200	U	0.00200		mg/Kg		10/10/24 08:08	10/10/24 11:37	1
	Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		10/10/24 08:08	10/10/24 11:37	1
ı										

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepa	red	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130	10/10/24	08:08	10/10/24 11:37	1
1,4-Difluorobenzene (Surr)	112		70 - 130	10/10/24	08:08	10/10/24 11:37	1

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 92936

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1056 mg/Kg 106 70 - 130 Toluene 0.100 0.09978 mg/Kg 100 70 - 130 0.100 107 Ethylbenzene 0.1069 mg/Kg 70 - 130 0.200 124 70 - 130 m-Xylene & p-Xylene 0.2473 mg/Kg 0.100 70 - 130 o-Xylene 0.1247 mg/Kg 125

LCS LCS

Surrogate	%Recovery Qualifier	r Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

Analysis Batch: 92939

Lab Sample ID: LCSD 880-92936/2-A

Prep Type: Total/NA Prep Batch: 92936 LCSD LCSD RPD Spike %Rec

Analyte	Added	Result Qualifie	er Unit	D %Rec	Limits	RPD	Limit
Benzene	0.100	0.1100	mg/Kg	110	70 - 130	4	35
Toluene	0.100	0.1035	mg/Kg	104	70 - 130	4	35
Ethylbenzene	0.100	0.1176	mg/Kg	118	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2574	mg/Kg	129	70 - 130	4	35
o-Xylene	0.100	0.1317 *+	mg/Kg	132	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery Qu	alifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-49596-A-1-B MS

**Matrix: Solid** 

Analysis Batch: 92939

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

Prep Batch: 92936

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.1018		mg/Kg		102	70 - 130	
Toluene	< 0.00201	U	0.100	0.09384		mg/Kg		94	70 - 130	

**Eurofins Midland** 

## **QC Sample Results**

Client: Carmona Resources

Job ID: 880-49611-1

Project/Site: Markham #001

SDG: Eddy Co, NM

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

Lab Sample ID: 880-49596-A-1-B MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 92939

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

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	Janipie	Janipie	Opike	INIO	INIO				/01 <b>\C</b> C	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.100	0.1111		mg/Kg		111	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2156		mg/Kg		108	70 - 130	
o-Xylene	<0.00201	U *+	0.100	0.1209		mg/Kg		121	70 - 130	

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 109
 70 - 130

 1,4-Difluorobenzene (Surr)
 102
 70 - 130

Lab Sample ID: 880-49596-A-1-C MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 92939 Prep Batch: 92936

Sample Sample Spike MSD MSD RPD Result Qualifier %Rec RPD Limit babbA Result Qualifier Limits Analyte Unit Benzene <0.00201 U 0.100 0.09799 mg/Kg 98 70 - 130 4 35 Toluene <0.00201 0.100 0.09545 mg/Kg 95 70 - 130 2 35 <0.00201 U 0.100 0.1100 110 70 - 130 35 Ethylbenzene mg/Kg m-Xylene & p-Xylene <0.00402 U 0.200 0.2366 mg/Kg 118 70 - 130 35 0.100 o-Xylene <0.00201 U\*+ 0.1161 mg/Kg 116 70 - 13035

 MSD MSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 109
 70 - 130

 1,4-Difluorobenzene (Surr)
 98
 70 - 130

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

Lab Sample ID: MB 880-92947/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 93006

MB MB

Result Qualifier RL MDL Unit D Dil Fac Analyte Prepared Analyzed <50.0 U 50.0 10/10/24 09:17 10/10/24 11:48 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 10/10/24 09:17 10/10/24 11:48 mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 10/10/24 09:17 10/10/24 11:48 mg/Kg

MB MB %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 1-Chlorooctane 112 70 - 130 10/10/24 09:17 10/10/24 11:48 105 70 - 130 10/10/24 09:17 10/10/24 11:48 o-Terphenyl

Lab Sample ID: LCS 880-92947/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 93006 Prep Batch: 92947

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits 1000 100 1004 70 \_ 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1197 mg/Kg 120 70 - 130 C10-C28)

**Eurofins Midland** 

Prep Batch: 92947

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Job ID: 880-49611-1 Client: Carmona Resources Project/Site: Markham #001 SDG: Eddy Co, NM

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

LCS LCS

158 S1+

LCSD LCSD

MS MS

%Recovery Qualifier

%Recovery Qualifier

102

Lab Sample ID: LCS 880-92947/2-A Client Sample ID: Lab Control Sample

**Matrix: Solid** 

Surrogate

o-Terphenyl

1-Chlorooctane

Analysis Batch: 93006

Prep Type: Total/NA

Prep Batch: 92947

Lab Sample ID: LCSD 880-92947/3-A Client Sample ID: Lab Control Sample Dup

Limits

70 - 130

70 - 130

Limits

**Matrix: Solid** Prep Type: Total/NA Analysis Batch: 93006 Prep Batch: 92947

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

1000 1014 101 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1205 120 mg/Kg 70 - 13020

C10-C28)

Surrogate

70 - 130 1-Chlorooctane 102 155 S1+ 70 - 130 o-Terphenyl

Lab Sample ID: 880-49609-A-1-E MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 93006** Prep Batch: 92947 Sample Sample MS MS Spike

Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U 996 886.9 mg/Kg 89 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 996 903.4 mg/Kg 91 70 - 130

C10-C28)

%Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 107 o-Terphenyl 106 70 - 130

Lab Sample ID: 880-49609-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

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

Analysis Batch: 93006 Prep Batch: 92947

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U 996 877.6 88 Gasoline Range Organics <50.0 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 996 911.0 mg/Kg 91 70 - 130 20

C10-C28)

MSD MSD Qualifier Surrogate %Recovery Limits 1-Chlorooctane 106 70 - 130 107 70 - 130 o-Terphenyl

**Eurofins Midland** 

## QC Sample Results

Client: Carmona Resources Job ID: 880-49611-1 Project/Site: Markham #001 SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-92946/1-A

**Matrix: Solid** 

Analyte

Chloride

Analysis Batch: 92953

Client Sample ID: Method Blank **Prep Type: Soluble** 

MB MB Dil Fac Result Qualifier RL MDL Unit D Prepared Analyzed <5.00 U 5.00 mg/Kg 10/10/24 11:45

Lab Sample ID: LCS 880-92946/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 92953** 

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 256.3 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-92946/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 92953

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 260.7 mg/Kg 104 90 - 110

Lab Sample ID: 880-49609-A-1-B MS

**Matrix: Solid** 

**Analysis Batch: 92953** 

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added %Rec Result Qualifier Unit Limits Chloride 8.02 251 273.3 106 90 - 110 mg/Kg

Lab Sample ID: 880-49609-A-1-C MSD

**Matrix: Solid** 

Analysis Batch: 92953

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 251 Chloride 8.02 274.1 mg/Kg 106 90 - 110 0 20

**Eurofins Midland** 

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

**Prep Type: Soluble** 

**Prep Type: Soluble** 

## **QC Association Summary**

Client: Carmona Resources

Job ID: 880-49611-1

Project/Site: Markham #001

SDG: Eddy Co, NM

**GC VOA** 

Prep Batch: 92936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49611-1	Lealand Backfill	Total/NA	Solid	5035	
MB 880-92936/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-92936/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-92936/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-49596-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-49596-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 92939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49611-1	Lealand Backfill	Total/NA	Solid	8021B	92936
MB 880-92936/5-A	Method Blank	Total/NA	Solid	8021B	92936
LCS 880-92936/1-A	Lab Control Sample	Total/NA	Solid	8021B	92936
LCSD 880-92936/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	92936
880-49596-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	92936
880-49596-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	92936

Analysis Batch: 93043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49611-1	Lealand Backfill	Total/NA	Solid	Total BTEX	

**GC Semi VOA** 

Prep Batch: 92947

Lab Cample ID	Client Comple ID	Draw Time	Matrix	Mathad	Duan Datah
<b>Lab Sample ID</b> 880-49611-1	Client Sample ID  Lealand Backfill	Prep Type  Total/NA	Solid	Method 8015NM Prep	Prep Batch
MB 880-92947/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-92947/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-92947/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49609-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-49609-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 93006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49611-1	Lealand Backfill	Total/NA	Solid	8015B NM	92947
MB 880-92947/1-A	Method Blank	Total/NA	Solid	8015B NM	92947
LCS 880-92947/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	92947
LCSD 880-92947/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	92947
880-49609-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	92947
880-49609-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	92947

**Analysis Batch: 93113** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49611-1	Lealand Backfill	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 92946

Released to Imaging: 11/14/2024 7:34:13 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49611-1	Lealand Backfill	Soluble	Solid	DI Leach	
MB 880-92946/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-92946/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-92946/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

**Eurofins Midland** 

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## **QC Association Summary**

Client: Carmona Resources Job ID: 880-49611-1
Project/Site: Markham #001 SDG: Eddy Co, NM

## **HPLC/IC** (Continued)

## Leach Batch: 92946 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49609-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-49609-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

### Analysis Batch: 92953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49611-1	Lealand Backfill	Soluble	Solid	300.0	92946
MB 880-92946/1-A	Method Blank	Soluble	Solid	300.0	92946
LCS 880-92946/2-A	Lab Control Sample	Soluble	Solid	300.0	92946
LCSD 880-92946/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	92946
880-49609-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	92946
880-49609-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	92946

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## Lab Chronicle

Client: Carmona Resources

Job ID: 880-49611-1

Project/Site: Markham #001

SDG: Eddy Co, NM

**Client Sample ID: Lealand Backfill** 

Date Collected: 10/09/24 00:00 Date Received: 10/10/24 08:21 Lab Sample ID: 880-49611-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	92936	10/10/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92939	10/10/24 18:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93043	10/10/24 18:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			93113	10/10/24 19:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	92947	10/10/24 09:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93006	10/10/24 19:29	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	92946	10/10/24 09:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92953	10/10/24 12:25	CH	EET MID

### Laboratory References:

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

**Eurofins Midland** 

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## **Accreditation/Certification Summary**

Client: Carmona Resources

Job ID: 880-49611-1

Project/Site: Markham #001

SDG: Eddy Co, NM

### **Laboratory: Eurofins Midland**

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	P	T104704400	06-30-25
• ,	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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## **Method Summary**

Client: Carmona Resources Project/Site: Markham #001 Job ID: 880-49611-1 SDG: Eddy Co, NM

col	Laboratory
46	EET MID
SOP	EET MID
46	EET MID
46	EET MID

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

**Eurofins Midland** 

## **Sample Summary**

Client: Carmona Resources Project/Site: Markham #001 Job ID: 880-49611-1 SDG: Eddy Co, NM

Lab Sample ID Client Sample ID Matrix Collected Received 880-49611-1 Lealand Backfill Solid 10/09/24 00:00 10/10/24 08:21

Chain of Custody

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### **Login Sample Receipt Checklist**

Client: Carmona Resources Job Number: 880-49611-1 SDG Number: Eddy Co, NM

List Source: Eurofins Midland

Login Number: 49611 List Number: 1

Creator: Vasquez, Julisa

Question Answer Comment

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate

HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested

MS/MSDs

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

**Eurofins Midland** 

Released to Imaging: 11/14/2024 7:34:13 AM

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 403172

### **QUESTIONS**

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	403172
	Action Type:
	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

### QUESTIONS

Prerequisites	
Incident ID (n#)	nCLB0523732298
Incident Name	NCLB0523732298 MARKHAM #001 @ 30-015-26544
Incident Type	Produced Water Release
Incident Status	Re-vegetation Report Received
Incident Well	[30-015-26544] MARKHAM #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MARKHAM #001
Date Release Discovered	06/09/2005
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Human Error   Production Tank   Crude Oil   Released: 3 BBL   Recovered: 2 BBL   Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause:     Produced Water   Released: 70 BBL   Recovered: 68 BBL   Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 403172

QUEST	TIONS (continued)
Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	Action Type:  [C-141] Revegetation Report C-141 (C-141-v-Revegetation)
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	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.
	diation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative eted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are require cases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface out does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com

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

Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 403172

**QUESTIONS** (continued)

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	403172
	Action Type:
	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

### QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 100 and 200 (ft.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

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	on 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)	4300	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	727	
GRO+DRO (EPA SW-846 Method 8015M)	727	
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	09/28/2024	
On what date will (or did) the final sampling or liner inspection occur	09/28/2024	
On what date will (or was) the remediation complete(d) 10/10/2024		
What is the estimated surface area (in square feet) that will be reclaimed	0	
What is the estimated volume (in cubic yards) that will be reclaimed	0	
What is the estimated surface area (in square feet) that will be remediated	1460	
What is the estimated volume (in cubic yards) that will be remediated	688	
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.		

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.

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 4

Action 403172

**QUESTIONS** (continued)

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	403172
	Action Type:
	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

### 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.

Name: Amy Barnhill
Title: Waste & Water Specialist
Email: ABarnhill@chevron.com
Date: 11/14/2024

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.

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 5

Action 403172

**QUESTIONS** (continued)

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	403172
	Action Type:
	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

### 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

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

Phone: (505) 629-6116
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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 6

Action 403172

QUESTIONS (continued)

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	403172
	Action Type:
	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	387639
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/28/2024
What was the (estimated) number of samples that were to be gathered	12
What was the sampling surface area in square feet	1500

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	1460		
What was the total volume (cubic yards) remediated	688		
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)	"Area was excavated and remediated based off of initial site assessment results. Once composite confirmation sidewall and floor samples were received, the area was backfilled with caliche and crushed gravel per Landowner specs, see closure report text and communications in Appendix C of the closure report."		

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: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 11/14/2024
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General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 7

Action 403172

**QUESTIONS** (continued)

Operator: CHEVRON U S A INC	OGRID: 4323
6301 Deauville Blvd Midland, TX 79706	Action Number: 403172
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)
QUESTIONS	
Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	0
What was the total volume of replacement material (in cubic yards) for this site	0
	f four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 over must include a top layer, which is either the background thickness of topsoil or one foot of suitable material
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	10/10/2024
Summarize any additional reclamation activities not included by answers (above)	Please see closure report. A variance to 19.15.29.13 NMAC is requested due to the landowner using the entire property as an industrial business and does not want any recalamtion or reseeding.
	reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form It field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13
to report and/or file certain release notifications and perform corrective actions for releate the OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 report	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com

Date: 11/14/2024

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 8

Action 403172

**QUESTIONS** (continued)

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	403172
	Action Type:
	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

### QUESTIONS

Revegetation Report				
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.				
Requesting a restoration complete approval with this submission	Yes			
What was the total revegetation surface area (in square feet) for this site	0			
Per Paragraph (2) of Subsection D of 19.15.29.13 NMAC the responsible party must reseed disturbed area in the first favorable growing season following closure of the site.				
On what date did the reseeding commence	10/10/2024			
On what date was the vegetative cover inspected	10/10/2024			
What was the life form ratio compared to pre-disturbance levels	50			
What was the total percent plant cover compared to pre-disturbance levels	70			
Summarize any additional revegetation activities not included by answers (above)	Please see closure report. A variance to 19.15.29.13 NMAC is requested due to the landowner using the entire property as an industrial business and does not want any reclamation or reseeding. The above numbers are reflective of the form needing a number equal to or greater than the numbers entered.			

The responsible party must attach information demonstrating they have complied with all applicable re-vegetation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any life form ratio and percent plant cover sampling diagrams or other relevant field notes, photographs of re-vegetated areas, and a narrative of the revegetation activities. Refer to 19.15.29.13 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: Amy Barnhill
Title: Waste & Water Specialist
Email: ABarnhill@chevron.com

Date: 11/14/2024

Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.

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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 403172

### **CONDITIONS**

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	403172
	Action Type:
	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

### CONDITIONS

	Created	Condition	Condition Date
	Ву		
ſ	bhall	Remediation closure approved. Reclamation and revegetation variance approved.	11/14/2024