

#### SITE INFORMATION

Closure Report
Stratocaster 20 Federal Com 004H (04.01.23)
Incident #: NAPP2310143956
Lea County, New Mexico
Unit I Sec 20 T23S R34E
32.2882°, -103.4862°

Crude Oil Release
Point of Release: Flooded Separator

**Release Date: 04.01.23** 

Volume Released: 0.4007 Barrels of Crude Oil Volume Recovered: 0 Barrels of Crude Oil

## CARMONA RESOURCES

Prepared for: COG Operating, LLC 600 W Illinois Ave Midland, Texas 79701

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



#### TABLE OF CONTENTS

#### 1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT ACTIVITIES

5.0 REMEDIATION ACTIVITIES

**6.0 CONCLUSIONS** 

#### **FIGURES**

FIGURE 1 OVERVIEW FIGURE 2 TOPOGRAPHIC

FIGURE 3 SAMPLE LOCATION FIGURE 4 EXCAVATION

#### **APPENDICES**

APPENDIX A TABLES

APPENDIX B PHOTOS

APPENDIX C INITIAL C-141 AND FINAL/ NMOCD CORRESPONDENCE

APPENDIX D SITE CHARACTERIZATION AND GROUNDWATER

APPENDIX E LABORATORY REPORTS



August 9, 2023

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

**Re:** Closure Report

Stratocaster 20 Federal Com 004H (04.01.23)

Concho Operating, LLC

Site Location: Unit I, S20, T23S, R34E

(Lat 32.2882°, Long -103.4862°)

Lea County, New Mexico

To whom it may concern:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site assessment activities for the Stratocaster 20 Federal Com 004H. The site is located at 32.2882, -103.4862 within Unit I, S20, T23S, R34E, in Lea County, New Mexico (Figures 1 and 2).

#### 1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on April 1, 2023, due to an equipment malfunction causing a flooded separator. It resulted in approximately point four zero zero seven (0.4007) barrels of crude oil and zero (0) barrels of crude oil recovered. The impacted area occurred on the pad, shown in Figure 3. The initial C-141 form is attached in Appendix C.

On July 18, 2023, the NMOCD approved a 30-day extension till August 17, 2023. The email correspondence can be found in Appendix C.

#### 2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The closest well is approximately 1.60 miles northeast of the site in S16, T23S, R34E and was drilled in 2018. The well has a reported depth to groundwater of 200 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 Assessment**

On May 23, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of five (5) sample points (S-1 through S-5) and six (6) horizontal sample points (H-1 through H-6) were installed to total depths ranging from surface to 0.5' bgs inside the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed



directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Using a hand auger, a dense layer was encountered on the pad around 0.25' - 0.5' bgs and could not grab deeper samples. See Table 1 for the analytical results.

#### **5.0 Remediation Activities**

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on July 26, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of thirteen (13) confirmation floor samples were collected (CS-1 through CS-13), and eight (8) sidewall samples (SW-1 through SW-8) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 175 cubic yards of material were excavated and transported offsite for proper disposal.

#### **6.0 Conclusions**

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

Sincerely,

Carmona Resources, LLC

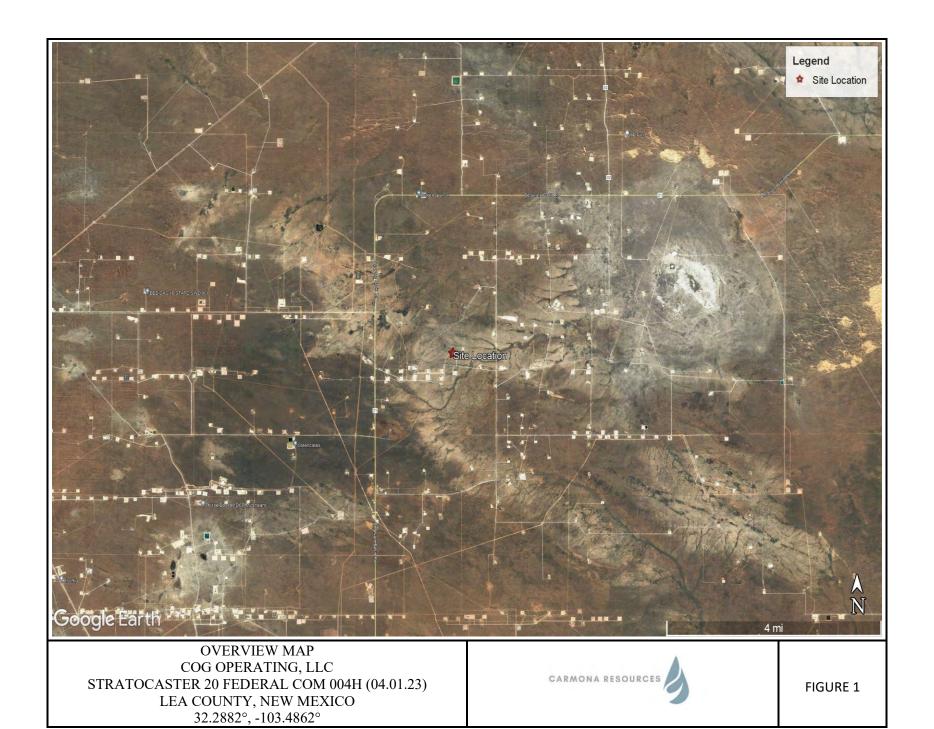
Mike Carmona

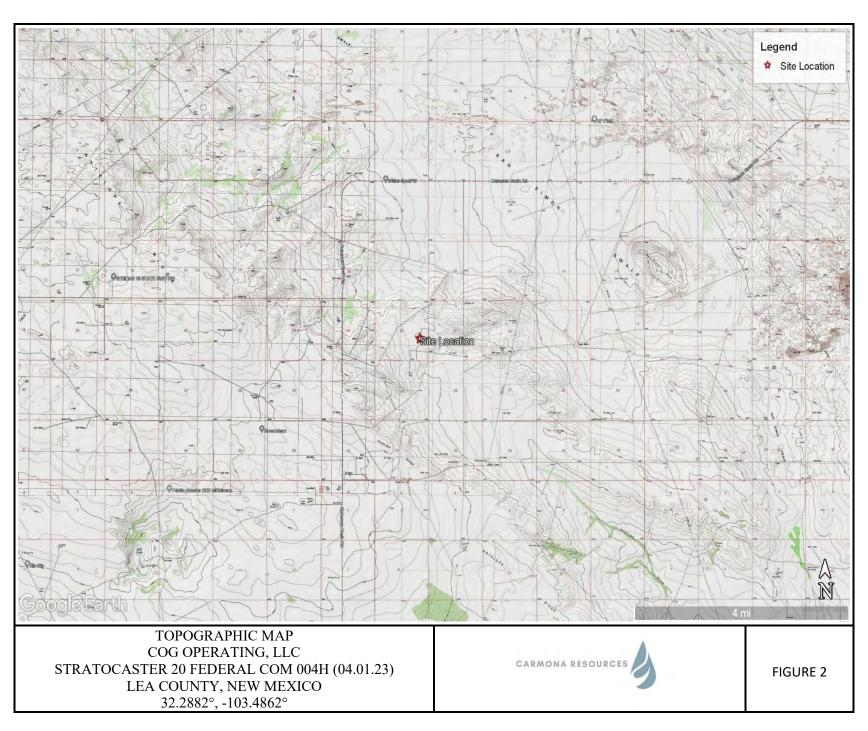
**Environmental Manager** 

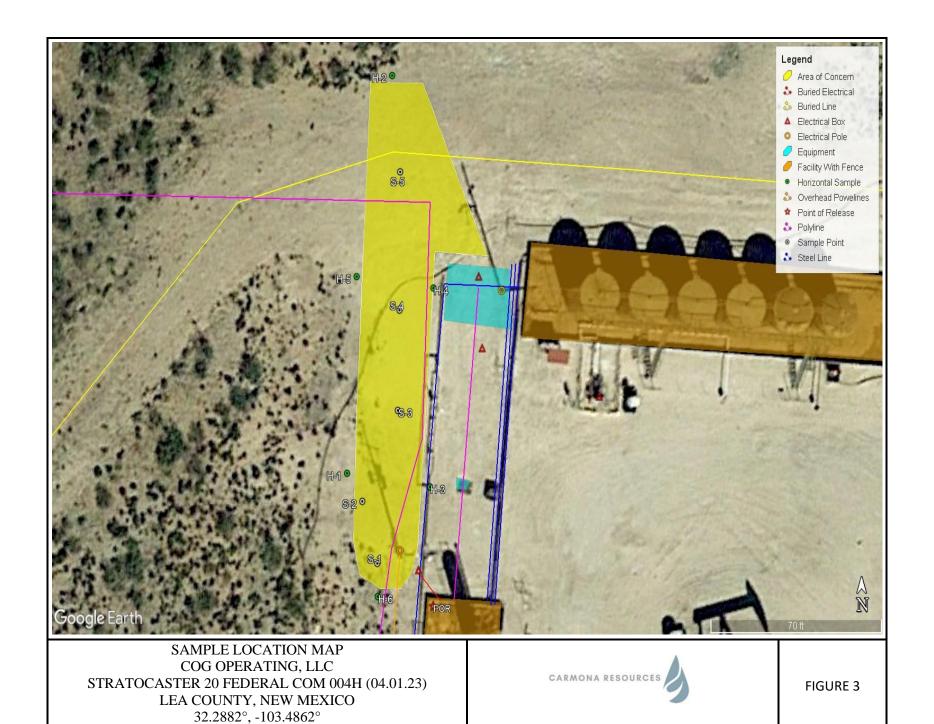
Conner Moehring Sr. Project Manager

## **FIGURES**

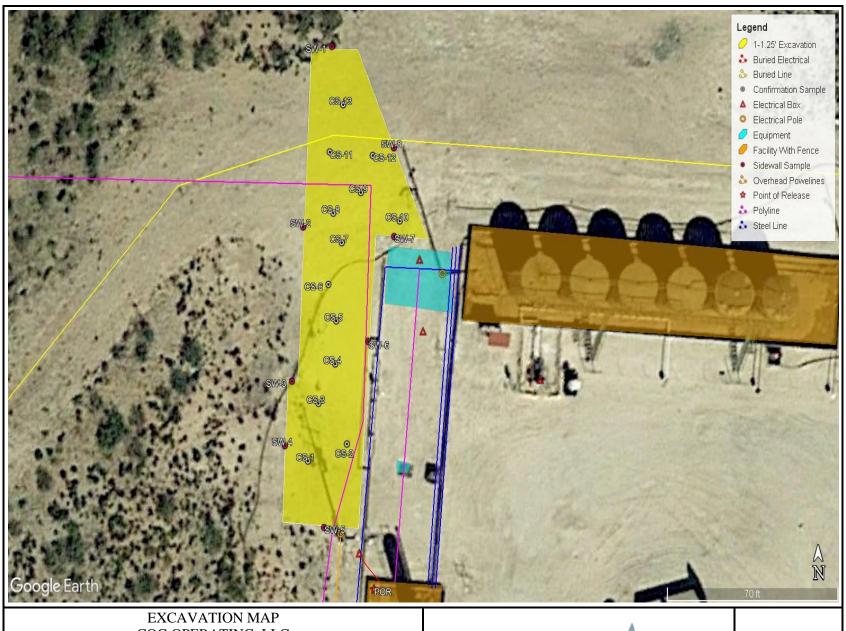
## CARMONA RESOURCES







Released to Imaging: 11/29/2023 3:17:41 PM



COG OPERATING, LLC STRATOCASTER 20 FEDERAL COM 004H (04.01.23) LEA COUNTY, NEW MEXICO 32.2882°, -103.4862°



FIGURE 4

## **APPENDIX A**



Table 1
Conoco Phillips
Stratocaster 20 Federal Com 004H (04.01.23)
Lea County, New Mexico

Comple ID	Doto	Donath (ft)		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
S-1	5/23/2023	0-0.25'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	76.1
S-2	5/23/2023	0-0.25'	<49.8	174	<49.8	174	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,550
02	"	0.5'	<50.0	469	84.2	553	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	655
S-3	5/23/2023	0-0.25'	<49.9	155	<49.9	155	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	15,500
S-4	5/23/2023	0-0.25'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,870
S-5	5/23/2023	0-0.25'	<49.8	55.5	<49.8	55.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,550
H-1	5/23/2023	0-0.5	<49.9	300	115	415	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	67.4
	8/3/2023	0-0.5	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	54.5
H-2	5/23/2023	0-0.5	<49.8	108	112	220	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	54.9
11.2	8/3/2023	0-0.5	<49.5	79.3	<49.5	79.3	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	28.3
H-3	5/23/2023	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	90.0
H-4	5/23/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	136
H-5	5/23/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	155
H-6	5/23/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	312
	ry Criteria A					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

A – Table 1 - 19.15.29 NMAC mg/kg - milligram per kilogram TPH- Total Petroleum Hydrocarbons ft-feet (H) Horizontal Sample (S) Soil Sample

Removed

## Table 2 Conoco Phillips Stratocaster 20 Federal Com 004H (4.01.23) Lea County, New Mexico

0 1 10	5.4	D (1/6)		TPH	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
CS-1	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-2	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-3	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-4	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-5	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-6	7/31/2023	1.0	<10.0	85.3	75.6	160.9	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	8/2/2023	1.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-7	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-8	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-9	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-10	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-11	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-12	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-13	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-1	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-2	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-3	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-4	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-5	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-6	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-7	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-8	7/31/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
	ry Criteria <sup>A</sup>					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
(-) Not	(-) Not Analyzed											

(-) Not Analyzed

A — Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH- Total Petroleum Hydrocarbons
ft-feet
(CS) Confirmation Smaple
(SW) Sidewall Sample

Removed

## **APPENDIX B**

# CARMONA RESOURCES

#### PHOTOGRAPHIC LOG

Concho Operating, LLC

#### Photograph No. 1

Facility: Stratocaster 20 Federal Com 004H

(04.01.23)

County: Lea County, New Mexico

**Description:** 

View Southwest, area of CS-1 through CS-4.



#### Photograph No. 2

Facility: Stratocaster 20 Federal Com 004H

(04.01.23)

County: Lea County, New Mexico

**Description:** 

View Southeast, area of CS-5 and CS-6.



#### Photograph No. 3

Facility: Stratocaster 20 Federal Com 004H

(04.01.23)

County: Lea County, New Mexico

Description:

View South, area of CS-7 through CS-12.



#### PHOTOGRAPHIC LOG

**Concho Operating, LLC** 

#### Photograph No. 4

Facility: Stratocaster 20 Federal Com 004H

(04.01.23)

County: Lea County, New Mexico

**Description:** 

View Northeast, area of CS-13.



#### Photograph No. 5

Facility: Stratocaster 20 Federal Com 004H

(04.01.23)

County: Lea County, New Mexico

#### **Description:**

View West, backfilled area of CS-1 through CS-3.



#### Photograph No. 6

Facility: Stratocaster 20 Federal Com 004H

(04.01.23)

County: Lea County, New Mexico

#### Description:

View Northeast, backfilled area of CS-4 through CS-8.



#### PHOTOGRAPHIC LOG

**Concho Operating, LLC** 

Photograph No. 7

Facility: Stratocaster 20 Federal Com 004H

(04.01.23)

County: Lea County, New Mexico

**Description:** 

View South, backfilled area of CS-9 through CS-13.



## **APPENDIX C**

# CARMONA RESOURCES

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

State of New Mexico Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

#### **Release Notification**

#### **Responsible Party**

Responsible Party					OGRID				
Contact Nam	ie			Contact T	Contact Telephone				
Contact email				Incident #	Incident # (assigned by OCD)				
Contact mail	ing address			<b>'</b>					
			Location	of Release S	ource				
Latitude				Longitude					
			(NAD 83 in dec	cimal degrees to 5 deci	imal places)				
Site Name				Site Type					
Date Release	Discovered			API# (if ap	plicable)				
Unit Letter	Section	Township	Range	Cou	nty				
Surface Owner	r: State	□ Federal □ Tr	ribal 🔲 Private ( <i>l</i>	Vame:		,			
Surface Owner	i State			·		,			
			Nature and	d Volume of	Release				
	Materia	(s) Released (Select al	I that apply and attach	calculations or specifi	c justification for th	ne volumes provided below)			
Crude Oil		Volume Release	d (bbls)		Volume Recovered (bbls)				
Produced	Water	Volume Release	d (bbls)		Volume Recovered (bbls)				
			ion of dissolved c	hloride in the	☐ Yes ☐ No				
Condensa	te	produced water			Volume Recovered (bbls)				
				` ′					
Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)  Volume/Weight Recovered (provide units)					
Other (describe) Volume/Weight Released (provide unit			e units)	volume/wei	gnt Recovered (provide units)				
Cause of Release									
Cause of Ren	casc								
		·	·		·				

Received by OCD: 8/15/2023 8258:58 AMI
State of New Mexico
Page 2
Oil Conservation Division

		-		- 0	0 -	100
· D	an	n	w	201	- 4	43
	uz			U		77.37

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the res	ponsible party consider this a major release?		
19.15.29.7(A) NMAC?				
☐ Yes ☐ No				
If VES, was immediate no	otice given to the OCD? By whom? To	whom? When and by what means (phone, email, etc)?		
II 1E3, was illillediate lie	once given to the OCD: By whom: To	whom: when and by what means (phone, eman, etc):		
	Initial	Response		
The responsible p	party must undertake the following actions immedi	iately unless they could create a safety hazard that would result in injury		
☐ The source of the rele	ase has been stopped.			
☐ The impacted area has	s been secured to protect human health a	and the environment.		
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.				
	All free liquids and recoverable materials have been removed and managed appropriately.			
If all the actions described	l above have <u>not</u> been undertaken, expla	in why:		
has begun, please attach a	a narrative of actions to date. If remed	the remediation immediately after discovery of a release. If remediation it is a lefforts have been successfully completed or if the release occurred by, please attach all information needed for closure evaluation.		
regulations all operators are public health or the environm failed to adequately investigations.	required to report and/or file certain release ment. The acceptance of a C-141 report by thate and remediate contamination that pose a	the best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger not OCD does not relieve the operator of liability should their operations have threat to groundwater, surface water, human health or the environment. In of responsibility for compliance with any other federal, state, or local laws		
Printed Name	_	Title:		
Signature:	tanetoparge	Date:		
		Telephone:		
OCD Only				
Received by:Jocelyn	Harimon	Date:04/12/2023		

Received by OCD: 8/15/2023 8:58:58 AM State of New Mexico
Page 3 Oil Conservation Division

	Page 20 of 143
Incident ID	
District RP	
Facility ID	
Application ID	

#### **Site Assessment/Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes ☐ No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No			
Are the lateral extents of the release within a 100-year floodplain?				
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☐ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  Field data  Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs  Photographs including date and GIS information  Topographic/Aerial maps  Laboratory data including chain of custody				

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

Received by OCD: 8/15/2023 8:58:58 AM State of New Mexico
Page 4 Oil Conservation Division

	Page 21 of 14	43
Incident ID		
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator o and/or regulations.	tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name:	Title:
Signature: Jacob Laird	Date:
email:	Telephone:
OCD Only	
Received by: Shelly Wells	Date: 8/15/2023

Received by OCD: 8/15/2023 Form C-141	State of New Mexico
Page 6	Oil Conservation Division

	Page 22 of 143
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:								
Signature: <u>Jacob Laird</u>	Date:							
email:	Telephone:							
OCD Only								
Received by: Shelly Wells	Date: 8/15/2023							
	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.							
Closure Approved by: Nelson Velez	Date:11/29/2023							
Printed Name: Nelson Velez	Title:Environmental Specialist - Adv							

From: Wells, Shelly, EMNRD

Sent: Wednesday, July 26, 2023 2:17 PM

**To:** Conner Moehring

Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] COG - Stratocaster 20 Fed 004H (04.01.23) - Sampling Notification

Hi Conner,

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

Thank you,

Shelly

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

From: Conner Moehring < Cmoehring@carmonaresources.com>

Sent: Wednesday, July 26, 2023 11:54 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Laird, Jacob < Jacob.Laird@conocophillips.com>; Mike Carmona

<Mcarmona@carmonaresources.com>; Devin Dominguez <Ddominguez@carmonaresources.com>

Subject: [EXTERNAL] COG - Stratocaster 20 Fed 004H (04.01.23) - Sampling Notification

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

Good Afternoon,

On behalf of COG, Carmona Resources will collect confirmation samples for the below site on 07/31/23. Sampling is scheduled to begin as early as 8:00 a.m. (MST) Monday, July 31st, weather and soil conditions permitting. Please let me know if you have any questions.

COG – Stratocaster 20 Fed 004H (04.01.23) NAPP2310143956 Sec 20 T23S R34E Unit I 32.2882, -103.4862 Lea County, New Mexico Conner R. Moehring 310 West Wall Street, Suite 500 Midland Texas, 79701 M: 432-813-6823

Cmoehring@carmonaresources.com



From: Velez, Nelson, EMNRD

Sent: Tuesday, July 18, 2023 4:13 PM

**To:** Conner Moehring

Cc: Mike Carmona; Bratcher, Michael, EMNRD

Subject: COP - Stratocaster 20 Fed 004H (04.01.23) - NAPP2310143956

Good afternoon Conner,

Thank you for the correspondence (below). Your 30-day time extension is approved. Remediation Due date has been updated to 08/17/2023.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



#### previous email submitted;

From: Conner Moehring < Cmoehring@carmonaresources.com >

**Sent:** Tuesday, July 18, 2023 12:37 PM

**To:** Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov> **Cc:** Mike Carmona < Mcarmona@carmonaresources.com>

**Subject:** [EXTERNAL] COP - Stratocaster 20 Fed 004H (04.01.23) - NAPP2310143956

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

Good Afternoon,

I want to inform the OCD of the status of the above-referenced site. We are currently in the process of repairing a line in the excavation area, and all remediation activities have been stopped to allow the crew to repair the line to safely and COP to clear the line to allow the crew back into the area and work safely. The majority of the excavation has been excavated, but confirmation samples have not been collected. On behalf of COP, we are requesting an additional four weeks to complete the project. Thank you, and let me know if you have any questions.

Conner R. Moehring 310 West Wall Street, Suite 500 Midland Texas, 79701

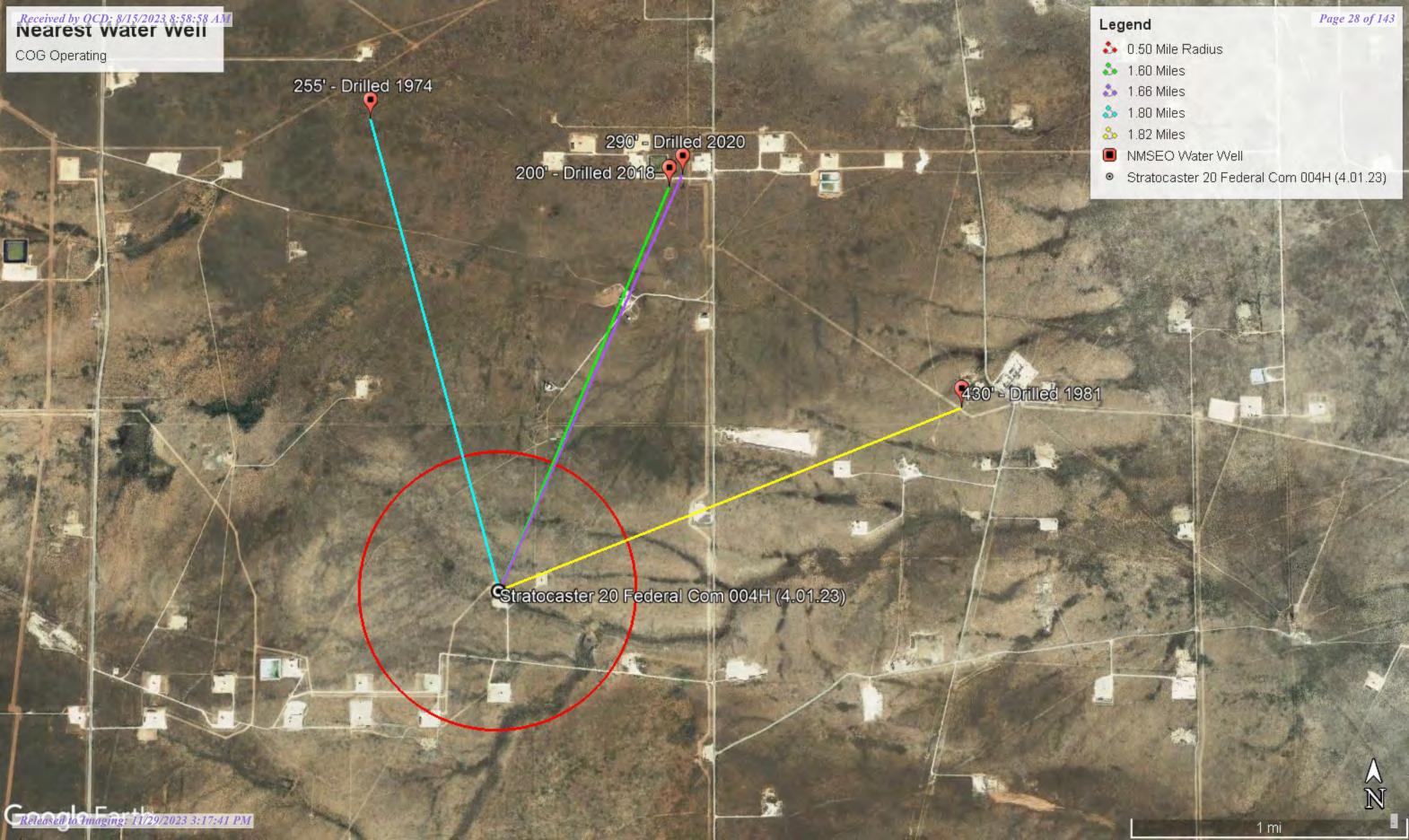
M: 432-813-6823

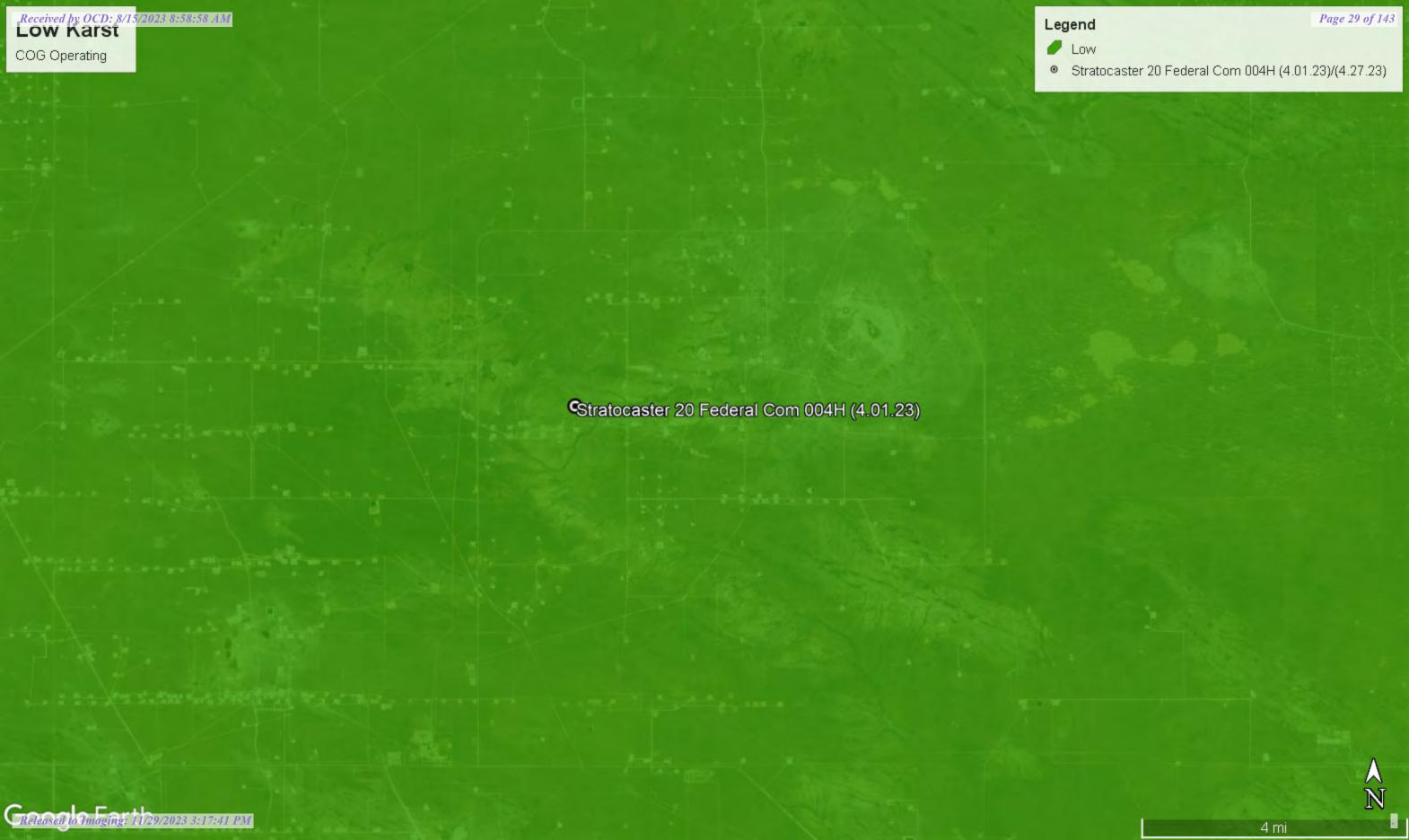
Cmoehring@carmonaresources.com



## **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 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

water right me.)	ciosca)	(0	1		٠	0		it to large	(11)	1200 C 1 W III III C	,	\		
	POD Sub-			Q	-							-	Depth	
POD Number	Code basin C	ounty	64	16	4 8	Sec	Tws	Rng	Х	Υ	Distance	Well	Water	Column
C 04667 POD1	CUB	LE	3	4	3	20	23S	34E	641770	3572915 🌍	969			
CP 01258 POD3	CP	LE	1	4	3	22	23S	34E	644938	3573097 🌍	2370	25		
CP 01258 POD2	CP	LE	1	4	3	22	23S	34E	644941	3572883 🌍	2413	65		
CP 01258 POD1	СР	LE	1	4	3	22	23S	34E	645015	3573221 🎒	2432	25		
CP 01730 POD1	СР	LE	2	2	1	16	238	34E	643549	3575824 🌍	2577	594	200	394
CP 01760 POD1	СР	LE	3	1	2	16	23S	34E	643627	3575897 🌍	2674	767	290	477
CP 00556 POD1	СР	LE	4	4	3	80	23S	34E	641762	3576206 🌕	2895	497	255	242
CP 00637	СР	LE	3	3	4	15	23S	34E	645293	3574541* 🎒	2920	430	430	0
<u>CP 00618</u>	СР	LE	1	2	4	22	23S	34E	645713	3573539* 🎒	3123	428	295	133
C 04353 POD1	CUB	ED	4	2	2	24	23S	33E	639474	3574098 🌕	3187	603	330	273
C 03620 POD1	CUB	LE	1	4	3	32	23S	34E	641790	3569941 🌕	3581	480	130	350
CP 01886 POD1	СР	LE	4	1	4	07	23S	34E	640646	3576545 🌑	3671			
CP 01785 POD1	СР	LE	4	1	3	14	23S	34E	646203	3575003 🌍	3939	488	245	243
CP 00580	СР	LE	3	4	3	23	23S	34E	646524	3572948* 🎒	3962	220		
C 04282 POD1	С	LE	1	2	1	05	24S	34E	641662	3569541 🌍	3999	574	390	184
CP 01120 POD1	СР	LE	2	3	3	14	23S	34E	646366	3574753 🌑	3999	397	318	79

Average Depth to Water:

288 feet

Minimum Depth:

130 feet

Maximum Depth:

430 feet

Record Count: 16

**UTMNAD83 Radius Search (in meters):** 

**Easting (X):** 642591 **Northing (Y):** 3573432 **Radius:** 4000

\*UTM location was derived from PLSS - see Help

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

5/31/23 1:37 PM Page 1 of 1

WATER COLUMN/ AVERAGE DEPTH TO WATER



### New Mexico Office of the State Engineer

## **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**  Q64 Q16 Q4 Sec Tws Rng

X

NA

CP 01730 POD1

23S 16

3575824 643549

**Driller License:** 1706 **Driller Company:** ELITE DRILLERS CORPORATION

**Driller Name:** WALLACE, BRYCE J.

**Drill Start Date:** 10/31/2018 **Drill Finish Date:** 

11/05/2018

**Plug Date:** 

Log File Date:

**PCW Rcv Date:** 

Source:

Artesian

**Pump Type:** 

12/13/2018

Pipe Discharge Size:

**Estimated Yield:** 

320 GPM

**Casing Size:** 

7.60

Depth Well:

594 feet **Depth Water:**  200 feet

Water Bearing Stratifications:	Тор	Bottom	Description
	290	320	Sandstone/Gr

ravel/Conglomerate 320 Sandstone/Gravel/Conglomerate 350 Sandstone/Gravel/Conglomerate Sandstone/Gravel/Conglomerate 440 490 Sandstone/Gravel/Conglomerate

530 Sandstone/Gravel/Conglomerate 550 570 Sandstone/Gravel/Conglomerate

570 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

8

Top **Bottom** 

294 594

**Meter Number:** 

20209

Meter Make:

SEAMETRICS

**Meter Serial Number:** 

042018001201

**Meter Multiplier:** 

1.0000

**Number of Dials:** 

**Meter Type:** 

Diversion

**Unit of Measure:** 

Barrels 42 gal.

**Return Flow Percent:** 

**Usage Multiplier:** 

Reading Frequency:

Monthly

**Meter Readings (in Acre-Feet)** 

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Online
01/07/2021	2021	144453	A	ad	0
02/05/2021	2021	144453	A	ad	0
08/02/2021	2021	144453	A	ad	0
09/01/2021	2021	144453	A	ad	0
10/05/2021	2021	144453	A	ad	0
11/04/2021	2021	144453	A	ad	0
12/13/2021	2021	144453	A	ad	0
01/01/2022	2022	144453	A	ad	0
02/08/2022	2022	144453	A	ad	0
03/02/2022	2022	144453	A	ad	0
04/01/2022	2022	144453	A	ad	0
05/06/2022	2022	144453	A	ad	0
06/07/2022	2022	144453	A	ad	0

			2021		U
			2021		0
**YTD Met	D Meter	Amounts:	Year		Amount
11/10/2022	/2022 2	2022	144453	A	ad
10/10/2022	/2022 2	2022	144453	A	ad
09/05/2022	/2022 2	2022	144453	A	ad
	/2022 2	2022	144453	A	ad

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.

5/31/23 1:37 PM

POINT OF DIVERSION SUMMARY



### New Mexico Office of the State Engineer

## **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X Y

NA CP 01760 POD1 3 1 2 16 23S 34E

643627 3575897

**Driller Name:** WALLACE, BRYCE J.LEE.NER

**Drill Start Date:** 02/01/2020 **Drill Finish Date:** 03/15/2020 **Plug Date:** 

Log File Date:04/09/2020PCW Rcv Date:Source:ArtesianPump Type:Pipe Discharge Size:Estimated Yield:80 GPMCasing Size:8.00Depth Well:767 feetDepth Water:290 feet

Water Bearing Stratifications:	Top	Bottom	Description
	285	320	Sandstone/Gravel/Conglomerate
	320	350	Shale/Mudstone/Siltstone
	350	445	Sandstone/Gravel/Conglomerate
	445	495	Shale/Mudstone/Siltstone
	495	530	Sandstone/Gravel/Conglomerate
	530	555	Sandstone/Gravel/Conglomerate
	555	570	Sandstone/Gravel/Conglomerate
	570	585	Sandstone/Gravel/Conglomerate
	585	600	Shale/Mudstone/Siltstone
	600	630	Shale/Mudstone/Siltstone
	630	660	Sandstone/Gravel/Conglomerate
	660	710	Sandstone/Gravel/Conglomerate
	710	750	Limestone/Dolomite/Chalk
Casing Perforations:	Тор	Bottom	
	567	767	
x			

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.

5/31/23 1:39 PM POINT OF DIVERSION SUMMARY



### New Mexico Office of the State Engineer

## **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**  Q64 Q16 Q4 Sec Tws Rng

X

CP 00556 POD1

23S

641762 3576206

**Driller License: Driller Company:** ABBOTT BROTHERS COMPANY

**Driller Name:** ABBOTT, MURRELL

**Drill Start Date:** 09/27/1974 **Drill Finish Date:** 10/17/1974 **Plug Date:** 

Log File Date: 10/25/1974 **PCW Rcv Date:** Shallow Source: **Pump Type:** Pipe Discharge Size: Estimated Yield: 28 GPM **Casing Size:** 7.00 **Depth Well:** 497 feet **Depth Water:** 255 feet

> Water Bearing Stratifications: **Bottom Description** Top

> > 255 497 Other/Unknown

**Casing Perforations: Bottom** Top

> 397 497

**Meter Number:** 8511 Meter Make: MASTER **Meter Serial Number:** 162038091 **Meter Multiplier:** 1.0000 **Number of Dials: Meter Type:** Diversion

Unit of Measure: Gallons **Return Flow Percent:** 

**Usage Multiplier: Reading Frequency:** Quarterly

#### **Meter Readings (in Acre-Feet)**

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Online
08/20/2004	2004	42932	A	jw	0
12/04/2004	2004	52692	A	jw	2.995
06/06/2014	2014	301111	A	RPT	0
10/01/2014	2014	42846900	A	RPT Changeout 6-6-14	0
12/31/2014	2014	52078300	A	RPT	28.330
01/01/2015	2015	52078300	A	RPT	0
02/01/2015	2015	54551900	A	RPT	7.591
03/27/2015	2015	8539300	A	RPT Changeout 3-27-15	0
03/27/2015	2015	58752900	A	RPT	12.892
04/30/2015	2015	11420700	A	RPT	8.843
05/31/2015	2015	14304800	A	RPT	8.851
07/01/2015	2015	17059300	A	RPT	8.453
08/01/2015	2015	19766900	A	RPT	8.309
01/01/2016	2016	29255500	A	RPT	29.119
02/01/2016	2016	29935100	A	RPT	2.086
03/02/2016	2016	29935100	A	RPT	0
04/01/2016	2016	29935100	A	RPT	0
05/01/2016	2016	29935100	A	RPT	0
06/01/2016	2016	30608200	A	RPT	2.066
07/01/2016	2016	30608200	A	RPT	0

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.

5/31/23 1:41 PM

POINT OF DIVERSION SUMMARY



### New Mexico Office of the State Engineer

## **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** 

CP 00637

Q64 Q16 Q4 Sec Tws Rng 15

X

**Driller License:** 

**Driller Company:** 

3574541\*

729

WHELLER, RAY DRILLING CO.

645293

**Driller Name:** 

**Drill Start Date:** 

WHEELER, RONALD R

07/06/1981

**Drill Finish Date:** 

07/09/1981

**Plug Date:** 

Shallow

Log File Date:

07/16/1981

**PCW Rcv Date:** 

Source:

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

100 GPM

**Casing Size:** 

7.00

Depth Well:

430 feet

**Bottom Description** 

Depth Water:

430 feet

Water Bearing Stratifications:

Top 400

425 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

Top 400

430

**Bottom** 

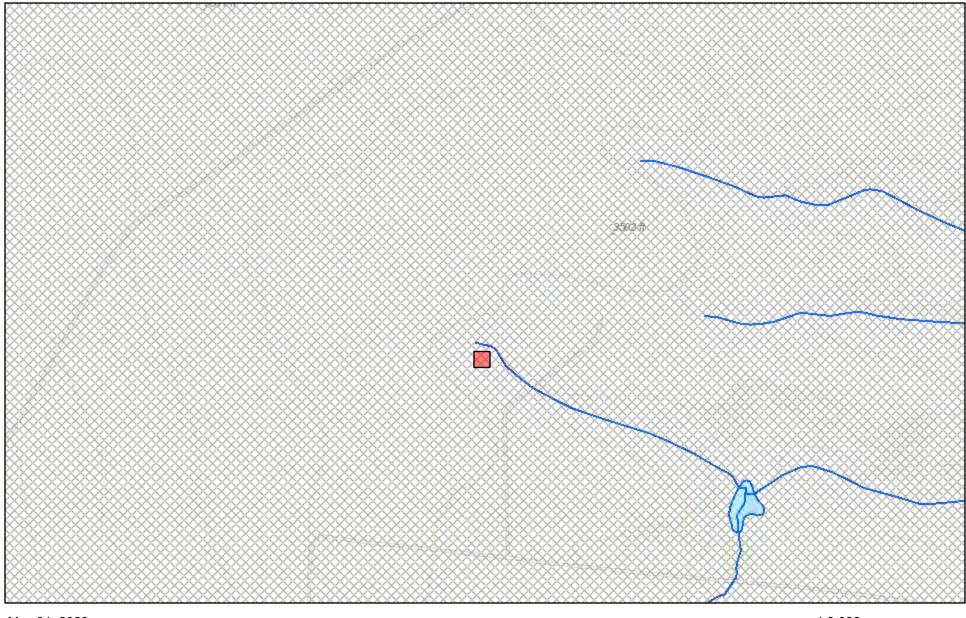
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/31/23 1:42 PM

POINT OF DIVERSION SUMMARY

<sup>\*</sup>UTM location was derived from PLSS - see Help

# New Mexico NFHL Data



May 31, 2023

1:9,028 0 0.05 0.1 0.2 mi 0 0.1 0.2 0.4 km

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

# **APPENDIX E**

# CARMONA RESOURCES

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

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

Generated 6/1/2023 1:38:31 PM

# **JOB DESCRIPTION**

Stratocaster 20 Fed 3&4 (4.01.23) SDG NUMBER Lea County, New Mexico

# **JOB NUMBER**

880-28857-1

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 6/1/2023 1:38:31 PM

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

3

4

5

0

8

11

12

10

Client: Carmona Resources Project/Site: Stratocaster 20 Fed 3&4 (4.01.23) Laboratory Job ID: 880-28857-1 SDG: Lea County, New Mexico

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	18
Lab Chronicle	21
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Chacklists	27

2

3

4

6

8

10

40

13

#### **Definitions/Glossary**

Job ID: 880-28857-1 Client: Carmona Resources Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

SDG: Lea County, New Mexico

**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** 

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

**HPLC/IC** 

Qualifier **Qualifier Description** 

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

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 Toxicity Equivalent Quotient (Dioxin) TEQ

**TNTC** Too Numerous To Count

#### Case Narrative

Client: Carmona Resources

Job ID: 880-28857-1 Project/Site: Stratocaster 20 Fed 3&4 (4.01.23) SDG: Lea County, New Mexico

Job ID: 880-28857-1

**Laboratory: Eurofins Midland** 

Narrative

Job Narrative 880-28857-1

#### Receipt

The samples were received on 5/26/2023 1:04 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-0.25') (880-28857-1), S-2 (0-0.25') (880-28857-2), S-2 (0.5') (880-28857-3), S-3 (0-0.25') (880-28857-4), S-4 (0-0.25') (880-28857-5) and S-5 (0-0.25') (880-28857-6).

#### GC VOA

Method 8021B: The CCV was biased low for ethylbenzene, toluene, o-xylene, and m,p-xylenes. Another CCV was analyzed and acceptable within the method specified 12 hour window; therefore, the data was qualified and reported. (CCV 880-54444/33)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-54428 and analytical batch 880-54444 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

#### GC Semi VOA

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-54278 and analytical batch 880-54321 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.

#### HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-54269 and analytical batch 880-54394 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

# **Client Sample Results**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28857-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-28857-1 Client Sample ID: S-1 (0-0.25')

Date Collected: 05/23/23 00:00 Matrix: Solid

Date Received: 05/26/23 13:04

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:40	05/30/23 18:42	1
Toluene	< 0.00200	U	0.00200		mg/Kg		05/30/23 09:40	05/30/23 18:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:40	05/30/23 18:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/30/23 09:40	05/30/23 18:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:40	05/30/23 18:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/30/23 09:40	05/30/23 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				05/30/23 09:40	05/30/23 18:42	1
1,4-Difluorobenzene (Surr)	91		70 - 130				05/30/23 09:40	05/30/23 18:42	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/31/23 09:57	1
Method: SW846 8015 NM - Diese	el Range Organ				mg/rtg			00,01120 00.07	
<del>-</del> -				MDL		D	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese		ics (DRO) (	GC)	MDL		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	Result   <50.0	ics (DRO) (C	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die	Result <50.0	ics (DRO) (C	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 05/30/23 09:23	1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result <50.0	ics (DRO) ( Qualifier U nics (DRO) Qualifier	RL 50.0		Unit mg/Kg		<u> </u>	Analyzed	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0  Sel Range Orga Result <50.0	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U F1	GC)  RL  50.0  (GC)  RL  50.0		Unit mg/Kg  Unit mg/Kg		Prepared 05/26/23 17:20	Analyzed 05/30/23 09:23  Analyzed 05/28/23 11:53	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0  sel Range Orga Result	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U F1	GC)  RL  50.0		Unit mg/Kg		Prepared	Analyzed 05/30/23 09:23 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0  Sel Range Orga Result <50.0	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U F1	GC)  RL  50.0  (GC)  RL  50.0		Unit mg/Kg  Unit mg/Kg		Prepared 05/26/23 17:20	Analyzed 05/30/23 09:23  Analyzed 05/28/23 11:53	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U F1  U	GC)  RL  50.0  (GC)  RL  50.0  50.0		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 05/26/23 17:20 05/26/23 17:20 05/26/23 17:20	Analyzed 05/30/23 09:23  Analyzed 05/28/23 11:53 05/28/23 11:53	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U F1  U	GC) RL 50.0  (GC) RL 50.0  50.0  50.0  Limits		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 05/26/23 17:20 05/26/23 17:20 05/26/23 17:20 Prepared	Analyzed 05/30/23 09:23  Analyzed 05/28/23 11:53 05/28/23 11:53 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U F1  U	GC)  RL  50.0  (GC)  RL  50.0  50.0		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 05/26/23 17:20 05/26/23 17:20 05/26/23 17:20	Analyzed 05/30/23 09:23  Analyzed 05/28/23 11:53 05/28/23 11:53	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U F1 U  Qualifier	GC)  RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits 70 - 130 70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 05/26/23 17:20 05/26/23 17:20 05/26/23 17:20  Prepared 05/26/23 17:20	Analyzed 05/30/23 09:23  Analyzed 05/28/23 11:53 05/28/23 11:53  Analyzed 05/28/23 11:53	1 Dil Fac 1 1
Method: SW846 8015 NM - Dieso Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U F1 U  Qualifier	GC)  RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits 70 - 130 70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg mg/Kg		Prepared 05/26/23 17:20 05/26/23 17:20 05/26/23 17:20  Prepared 05/26/23 17:20	Analyzed 05/30/23 09:23  Analyzed 05/28/23 11:53 05/28/23 11:53  Analyzed 05/28/23 11:53	1 1 1 Dil Fac

Client Sample ID: S-2 (0-0.25') Lab Sample ID: 880-28857-2

Date Collected: 05/23/23 00:00 **Matrix: Solid** 

Date Received: 05/26/23 13:04

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:40	05/30/23 19:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:40	05/30/23 19:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:40	05/30/23 19:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/30/23 09:40	05/30/23 19:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:40	05/30/23 19:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/30/23 09:40	05/30/23 19:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				05/30/23 09:40	05/30/23 19:03	1
1,4-Difluorobenzene (Surr)	87		70 - 130				05/30/23 09:40	05/30/23 19:03	1

# **Client Sample Results**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28857-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-28857-2 **Client Sample ID: S-2 (0-0.25')** 

Matrix: Solid

Date Collected: 05/23/23 00:00 Date Received: 05/26/23 13:04

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/31/23 09:57	1
-   Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	174		49.8		mg/Kg			05/30/23 09:23	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	<49.8	U	49.8		mg/Kg		05/26/23 17:20	05/28/23 12:59	1
(GRO)-C6-C10									
Diesel Range Organics (Over	174		49.8		mg/Kg		05/26/23 17:20	05/28/23 12:59	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/26/23 17:20	05/28/23 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				05/26/23 17:20	05/28/23 12:59	1
o-Terphenyl	99		70 - 130				05/26/23 17:20	05/28/23 12:59	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hv - Solubl	e						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1550		50.4		mg/Kg			05/30/23 10:28	10

Client Sample ID: S-2 (0.5') Lab Sample ID: 880-28857-3 **Matrix: Solid** 

Date Collected: 05/23/23 00:00

Date Received: 05/26/23 13:04

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:40	05/30/23 19:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:40	05/30/23 19:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:40	05/30/23 19:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/30/23 09:40	05/30/23 19:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:40	05/30/23 19:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/30/23 09:40	05/30/23 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				05/30/23 09:40	05/30/23 19:23	1
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte		culation Qualifier	70 <sub>-</sub> 130 RL	MDL	Unit	D	05/30/23 09:40  Prepared	05/30/23 19:23 Analyzed	
		culation	70 - 130				05/30/23 09:40	05/30/23 19:23	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00402	<b>Qualifier</b> U	RL 0.00402	MDL		<u> </u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00402 esel Range Organ	<b>Qualifier</b> U	RL 0.00402			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00402 esel Range Organ	Qualifier U	RL 0.00402		mg/Kg		Prepared	Analyzed 05/31/23 09:57	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00402 esel Range Organ Result 553	Qualifier U ics (DRO) ( Qualifier	RL 0.00402 ——————————————————————————————————		mg/Kg		Prepared	Analyzed 05/31/23 09:57 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00402 esel Range Organ Result 553 iesel Range Orga	Qualifier U ics (DRO) ( Qualifier	RL 0.00402 ——————————————————————————————————	MDL	mg/Kg		Prepared	Analyzed 05/31/23 09:57 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00402 esel Range Organ Result 553 iesel Range Orga	Qualifier U ics (DRO) ( Qualifier  nics (DRO) Qualifier	RL 0.00402  GC)  RL 50.0	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 05/31/23 09:57  Analyzed 05/30/23 09:23	Dil Fac

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28857-1

SDG: Lea County, New Mexico

Client Sample ID: S-2 (0.5')

Date Collected: 05/23/23 00:00 Date Received: 05/26/23 13:04

Lab Sample ID: 880-28857-3

Matrix: Solid

Method: SW846 8015B NM	- Diesel Range Organics (DRO) (G	C) (Continued)
A I4 -	DII OIIII	D.

Analyte	Result Quali	lifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over	84.2	50.0	mg/Kg		05/26/23 17:20	05/28/23 13:21	1
COO COC							

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118	70 - 130	05/26/23 17:20	05/28/23 13:21	1
o-Terphenvl	114	70 - 130	05/26/23 17:20	05/28/23 13:21	1

o-Terphenyl 114 70 - 130

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	655		50.0		mg/Kg			05/30/23 10:34	10

Client Sample ID: S-3 (0-0.25') Lab Sample ID: 880-28857-4

Date Collected: 05/23/23 00:00

Date Received: 05/26/23 13:04

**Matrix: Solid** 

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/30/23 15:51	05/31/23 23:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/30/23 15:51	05/31/23 23:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/30/23 15:51	05/31/23 23:24	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/30/23 15:51	05/31/23 23:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/30/23 15:51	05/31/23 23:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/30/23 15:51	05/31/23 23:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/30/23 15:	51 05/31/23 23:24	1
1,4-Difluorobenzene (Surr)	101		70 - 130	05/30/23 15:	51 05/31/23 23:24	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396		mg/Kg			06/01/23 09:26	1

Mothod: SW946 9045 NM	Diocal Pango	Organica	(DBO) (	CC
Method: SW846 8015 NM	- Diesei Kange	Organics	י) (טאט)	GC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	155	49.9	ma/Ka			05/30/23 09:23	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		05/26/23 17:20	05/28/23 13:42	1
(GRO)-C6-C10									
Diesel Range Organics (Over	155		49.9		mg/Kg		05/26/23 17:20	05/28/23 13:42	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/26/23 17:20	05/28/23 13:42	1

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98	70 - 130	05/26/23 17:20	05/28/23 13:42	1
o-Terphenyl	93	70 - 130	05/26/23 17:20	05/28/23 13:42	1

l	Mothod: EPA 300 0 - Anione Ion Chromatography - Solublo
ı	Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15500	248	mg/Kg			05/30/23 10:39	50

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28857-1

SDG: Lea County, New Mexico

**Client Sample ID: S-4 (0-0.25')** 

Date Collected: 05/23/23 00:00 Date Received: 05/26/23 13:04

Lab Sample ID: 880-28857-5

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/30/23 15:51	05/31/23 23:44	1
Toluene	< 0.00199	U	0.00199		mg/Kg		05/30/23 15:51	05/31/23 23:44	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		05/30/23 15:51	05/31/23 23:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/30/23 15:51	05/31/23 23:44	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		05/30/23 15:51	05/31/23 23:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/30/23 15:51	05/31/23 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				05/30/23 15:51	05/31/23 23:44	1
1,4-Difluorobenzene (Surr)	99		70 - 130				05/30/23 15:51	05/31/23 23:44	1
- Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	П	0.00398		mg/Kg			06/01/23 09:26	
-					mg/rtg			00/01/20 09.20	
The state of the s	I Range Organ			MDL		D	Prepared		Dil Fac
_	I Range Organ	ics (DRO) (	GC)	MDL		<u>D</u>	Prepared	Analyzed 05/30/23 09:23	
Method: SW846 8015 NM - Diese Analyte Total TPH	Result <50.0	ics (DRO) (Gualifier	GC) RL 50.0	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	I Range Organ Result <	ics (DRO) ( Qualifier U	RL 50.0		Unit mg/Kg			Analyzed 05/30/23 09:23	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	I Range Organ Result Result <p< td=""><td>Qualifier Unics (DRO) Qualifier</td><td>GC)  RL  50.0</td><td>MDL</td><td>Unit mg/Kg Unit</td><td> <u>D</u></td><td>Prepared</td><td>Analyzed 05/30/23 09:23 Analyzed</td><td>Dil Fac</td></p<>	Qualifier Unics (DRO) Qualifier	GC)  RL  50.0	MDL	Unit mg/Kg Unit	<u>D</u>	Prepared	Analyzed 05/30/23 09:23 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	I Range Organ Result <	Qualifier Unics (DRO) Qualifier	RL 50.0		Unit mg/Kg			Analyzed 05/30/23 09:23	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	I Range Organ Result Result <p< td=""><td>Qualifier U nics (DRO) Qualifier U u</td><td>GC)  RL  50.0</td><td></td><td>Unit mg/Kg  Unit mg/Kg</td><td></td><td>Prepared 05/26/23 17:20</td><td>Analyzed 05/30/23 09:23 Analyzed</td><td>Dil Fac</td></p<>	Qualifier U nics (DRO) Qualifier U u	GC)  RL  50.0		Unit mg/Kg  Unit mg/Kg		Prepared 05/26/23 17:20	Analyzed 05/30/23 09:23 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	I Range Organ Result <50.0 sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U u	(GC)  RL  50.0  RL  50.0		Unit mg/Kg Unit		Prepared	Analyzed 05/30/23 09:23  Analyzed 05/28/23 14:04	Dil Fac  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	I Range Organ Result <50.0 sel Range Orga Result <50.0	cos (DRO) (Control of the Control of	(GC)  RL  50.0  RL  50.0		Unit mg/Kg  Unit mg/Kg		Prepared 05/26/23 17:20	Analyzed 05/30/23 09:23  Analyzed 05/28/23 14:04	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)	I Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0	cos (DRO) (Control of the Control of	GC)  RL  50.0  (GC)  RL  50.0  50.0		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 05/26/23 17:20 05/26/23 17:20	Analyzed 05/30/23 09:23  Analyzed 05/28/23 14:04 05/28/23 14:04	Dil Fac  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) Oll Range Organics (Over C28-C36)	I Range Organ Result cel Range Orga Result  <50.0 <50.0 <50.0	Control (Control (Con	GC)  RL  50.0  (GC)  RL  50.0  50.0		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 05/26/23 17:20 05/26/23 17:20 05/26/23 17:20	Analyzed 05/30/23 09:23  Analyzed 05/28/23 14:04 05/28/23 14:04	Dil Fac  Dil Fac  1  1  1
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) Oll Range Organics (Over C28-C36)  Surrogate	Result Solution Sel Range Organ Result \$ </td <td>Control (Control (Con</td> <td>GC)  RL 50.0  (GC)  RL 50.0  50.0  Limits</td> <td></td> <td>Unit mg/Kg  Unit mg/Kg mg/Kg</td> <td></td> <td>Prepared 05/26/23 17:20 05/26/23 17:20 05/26/23 17:20 Prepared</td> <td>Analyzed 05/30/23 09:23  Analyzed 05/28/23 14:04 05/28/23 14:04 Analyzed</td> <td>Dil Fac  Dil Fac  1  Dil Fac</td>	Control (Control (Con	GC)  RL 50.0  (GC)  RL 50.0  50.0  Limits		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 05/26/23 17:20 05/26/23 17:20 05/26/23 17:20 Prepared	Analyzed 05/30/23 09:23  Analyzed 05/28/23 14:04 05/28/23 14:04 Analyzed	Dil Fac  Dil Fac  1  Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GR0)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result Sel Range Organ Result Sel Range Organ Result <50.0 <50.0 <50.0 <70.0 %Recovery 102 95	Company of the compan	GC)  RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits 70 - 130 70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 05/26/23 17:20 05/26/23 17:20 05/26/23 17:20  Prepared 05/26/23 17:20	Analyzed 05/30/23 09:23  Analyzed 05/28/23 14:04 05/28/23 14:04  Analyzed 05/28/23 14:04	Dil Fac  Dil Fac  1  Dil Fac  1  Dil Fac  1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GR0)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	I Range Organ Result sel Range Organ Result  <50.0 <50.0 <50.0 <50.0 <8ecovery 102 95 Chromatograp	Company of the compan	GC)  RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits 70 - 130 70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg mg/Kg		Prepared 05/26/23 17:20 05/26/23 17:20 05/26/23 17:20  Prepared 05/26/23 17:20	Analyzed 05/30/23 09:23  Analyzed 05/28/23 14:04 05/28/23 14:04  Analyzed 05/28/23 14:04	Dil Fac  Dil Fac  1  Dil Fac  1  Dil Fac  1

Client Sample ID: S-5 (0-0.25') Lab Sample ID: 880-28857-6 Date Collected: 05/23/23 00:00 Matrix: Solid

Date Received: 05/26/23 13:04

Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier Analyte MDL Unit D Dil Fac RL Prepared Analyzed Benzene <0.00201 U 0.00201 mg/Kg 05/30/23 15:51 06/01/23 00:05 Toluene <0.00201 U 0.00201 mg/Kg 05/30/23 15:51 06/01/23 00:05 Ethylbenzene <0.00201 U 0.00201 mg/Kg 05/30/23 15:51 06/01/23 00:05 m-Xylene & p-Xylene <0.00402 U 0.00402 mg/Kg 05/30/23 15:51 06/01/23 00:05 o-Xylene <0.00201 U 0.00201 mg/Kg 05/30/23 15:51 06/01/23 00:05 <0.00402 U 0.00402 05/30/23 15:51 06/01/23 00:05 Xylenes, Total mg/Kg %Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 121 70 - 130 05/30/23 15:51 06/01/23 00:05 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 101 70 - 130 05/30/23 15:51 06/01/23 00:05

# **Client Sample Results**

Client: Carmona Resources

Job ID: 880-28857-1 Project/Site: Stratocaster 20 Fed 3&4 (4.01.23) SDG: Lea County, New Mexico

Lab Sample ID: 880-28857-6

**Client Sample ID: S-5 (0-0.25')** 

Matrix: Solid

Date Collected: 05/23/23 00:00 Date Received: 05/26/23 13:04

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/01/23 09:26	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.5		49.8		mg/Kg			05/30/23 09:23	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		05/26/23 17:20	05/28/23 14:26	1
(GRO)-C6-C10									
Diesel Range Organics (Over	55.5		49.8		mg/Kg		05/26/23 17:20	05/28/23 14:26	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/26/23 17:20	05/28/23 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				05/26/23 17:20	05/28/23 14:26	1
o-Terphenyl	94		70 - 130				05/26/23 17:20	05/28/23 14:26	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2550	F1	50.1		mg/Kg			05/30/23 10:50	10

# **Surrogate Summary**

Client: Carmona Resources

Job ID: 880-28857-1 Project/Site: Stratocaster 20 Fed 3&4 (4.01.23) SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-28852-A-4-C MS	Matrix Spike	76	118	
880-28852-A-4-D MSD	Matrix Spike Duplicate	84	115	
880-28857-1	S-1 (0-0.25')	89	91	
380-28857-2	S-2 (0-0.25')	89	87	
380-28857-3	S-2 (0.5')	89	85	
880-28857-4	S-3 (0-0.25')	98	101	
380-28857-5	S-4 (0-0.25')	107	99	
380-28857-6	S-5 (0-0.25')	121	101	
380-28876-A-1-A MS	Matrix Spike	105	103	
880-28876-A-1-B MSD	Matrix Spike Duplicate	99	110	
_CS 880-54365/1-A	Lab Control Sample	106	101	
_CS 880-54428/1-A	Lab Control Sample	82	115	
_CSD 880-54365/2-A	Lab Control Sample Dup	99	103	
_CSD 880-54428/2-A	Lab Control Sample Dup	105	111	
MB 880-54365/5-A	Method Blank	90	109	
MB 880-54425/5-A	Method Blank	83	102	
MB 880-54428/5-A	Method Blank	79	103	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-28857-1	S-1 (0-0.25')	97	94	
380-28857-1 MS	S-1 (0-0.25')	91	81	
880-28857-1 MSD	S-1 (0-0.25')	98	85	
380-28857-2	S-2 (0-0.25')	103	99	
880-28857-3	S-2 (0.5')	118	114	
880-28857-4	S-3 (0-0.25')	98	93	
880-28857-5	S-4 (0-0.25')	102	95	
880-28857-6	S-5 (0-0.25')	99	94	
LCS 880-54278/2-A	Lab Control Sample	99	91	
_CSD 880-54278/3-A	Lab Control Sample Dup	101	95	
MB 880-54278/1-A	Method Blank	91	90	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23) SDG: Lea County, New Mexico

Job ID: 880-28857-1

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

Lab Sample ID: MB 880-54365/5-A

Lab Sample ID: LCS 880-54365/1-A

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 54337

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54365

	IVIB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:40	05/30/23 11:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:40	05/30/23 11:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:40	05/30/23 11:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/30/23 09:40	05/30/23 11:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:40	05/30/23 11:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/30/23 09:40	05/30/23 11:30	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	05/30/23 09:40	05/30/23 11:30	1
1,4-Difluorobenzene (Surr)	109		70 - 130	05/30/23 09:40	05/30/23 11:30	1

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 54365

Analysis Batch: 54337 Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09839 mg/Kg 98 70 - 130 Toluene 0.100 0.09022 mg/Kg 90 70 - 130 0.100 0.08827 88 Ethylbenzene mg/Kg 70 - 130 0.200 0.1870 93 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09537 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

**Matrix: Solid** 

Analysis Batch: 54337

Lab Sample ID: LCSD 880-54365/2-A

Prep Type: Total/NA Prep Batch: 54365

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1284		mg/Kg		128	70 - 130	26	35
Toluene	0.100	0.1125		mg/Kg		113	70 - 130	22	35
Ethylbenzene	0.100	0.1041		mg/Kg		104	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.2159		mg/Kg		108	70 - 130	14	35
o-Xylene	0.100	0.1082		mg/Kg		108	70 - 130	13	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-28876-A-1-A MS

**Matrix: Solid** 

Analysis Batch: 54337

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

Prep Batch: 54365

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.101	0.1210		mg/Kg		120	70 - 130	
Toluene	< 0.00201	U	0.101	0.1065		mg/Kg		106	70 - 130	

**Eurofins Midland** 

Page 12 of 27

Client: Carmona Resources

Job ID: 880-28857-1 Project/Site: Stratocaster 20 Fed 3&4 (4.01.23) SDG: Lea County, New Mexico

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

Lab Sample ID: 880-28876-A-1-A MS

Lab Sample ID: 880-28876-A-1-B MSD

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 54337

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 54365

	Sample	Sample	<b>Spike</b>	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00201	U	0.101	0.1040		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.202	0.2162		mg/Kg		107	70 - 130
o-Xylene	<0.00201	U	0.101	0.1073		mg/Kg		106	70 - 130

MS MS

Surrogate	%Recovery Qu	alifier Limits	
4-Bromofluorobenzene (Surr)	105	70 - 130	)
1,4-Difluorobenzene (Surr)	103	70 - 130	)

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 54365

RPD

**Analysis Batch: 54337** Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit 0.0996 0.1191 2 Benzene <0.00201 U mg/Kg 120 70 - 130 35 Toluene <0.00201 U 0.0996 0.09924 100 70 - 130 35 mg/Kg Ethylbenzene <0.00201 U 0.0996 0.09310 mg/Kg 93 70 - 130 11 35 m-Xylene & p-Xylene <0.00402 U 0.199 0.1915 70 - 130 35 mg/Kg 96 12 0.0996 o-Xylene <0.00201 U 0.09560 96 70 - 130 12 mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: MB 880-54425/5-A

**Matrix: Solid** 

Analysis Batch: 54444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54425

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:42	05/31/23 10:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:42	05/31/23 10:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:42	05/31/23 10:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/30/23 15:42	05/31/23 10:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:42	05/31/23 10:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/30/23 15:42	05/31/23 10:53	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	05/30/23 15:42	05/31/23 10:53	1
1,4-Difluorobenzene (Surr)	102		70 - 130	05/30/23 15:42	05/31/23 10:53	1

Lab Sample ID: MB 880-54428/5-A

**Matrix: Solid** 

Analysis Batch: 54444

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 54428

	INID	IAID						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/30/23 15:51	05/31/23 22:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/30/23 15:51	05/31/23 22:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/30/23 15:51	05/31/23 22:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/30/23 15:51	05/31/23 22:42	1

Client: Carmona Resources

Job ID: 880-28857-1 SDG: Lea County, New Mexico Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

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

Lab Sample ID: MB 880-54428/5-A

**Matrix: Solid** 

Analysis Batch: 54444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54428

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:51	05/31/23 22:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/30/23 15:51	05/31/23 22:42	1

MR MR

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79	70 - 130	05/30/23 15:51	05/31/23 22:42	1
1,4-Difluorobenzene (Surr)	103	70 - 130	05/30/23 15:51	05/31/23 22:42	1

**Client Sample ID: Lab Control Sample** 

Lab Sample ID: LCS 880-54428/1-A

**Analysis Batch: 54444** 

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

Prep Batch: 54428

	эріке	LUS	LUS				70 Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1294		mg/Kg		129	70 - 130	
Toluene	0.100	0.09418		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.08057		mg/Kg		81	70 - 130	
m-Xylene & p-Xylene	0.200	0.1568		mg/Kg		78	70 - 130	
o-Xylene	0.100	0.07851		mg/Kg		79	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	82	70 - 130
1.4-Difluorobenzene (Surr)	115	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54428

Matrix: Solid Analysis Batch: 54444

Lab Sample ID: LCSD 880-54428/2-A

The state of the s									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1215		mg/Kg		122	70 - 130	6	35
Toluene	0.100	0.09515		mg/Kg		95	70 - 130	1	35
Ethylbenzene	0.100	0.09010		mg/Kg		90	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1872		mg/Kg		94	70 - 130	18	35
o-Xylene	0.100	0.09428		mg/Kg		94	70 - 130	18	35
	Analyte  Benzene  Toluene  Ethylbenzene  m-Xylene & p-Xylene	Analyte         Added           Benzene         0.100           Toluene         0.100           Ethylbenzene         0.100           m-Xylene & p-Xylene         0.200	Analyte         Added         Result           Benzene         0.100         0.1215           Toluene         0.100         0.09515           Ethylbenzene         0.100         0.09010           m-Xylene & p-Xylene         0.200         0.1872	Analyte         Added Benzene         Result Oualifier         Qualifier           Benzene         0.100         0.1215         0.09515           Toluene         0.100         0.09515         0.09010           Ethylbenzene         0.200         0.1872	Analyte         Added         Result         Qualifier         Unit           Benzene         0.100         0.1215         mg/Kg           Toluene         0.100         0.09515         mg/Kg           Ethylbenzene         0.100         0.09010         mg/Kg           m-Xylene & p-Xylene         0.200         0.1872         mg/Kg	Analyte         Added         Result         Qualifier         Unit         D           Benzene         0.100         0.1215         mg/Kg           Toluene         0.100         0.09515         mg/Kg           Ethylbenzene         0.100         0.09010         mg/Kg           m-Xylene & p-Xylene         0.200         0.1872         mg/Kg	Analyte         Added         Result         Qualifier         Unit         D         %Rec           Benzene         0.100         0.1215         mg/Kg         122           Toluene         0.100         0.09515         mg/Kg         95           Ethylbenzene         0.100         0.09010         mg/Kg         90           m-Xylene & p-Xylene         0.200         0.1872         mg/Kg         94	Analyte         Added         Result         Qualifier         Unit         D         %Rec         Limits           Benzene         0.100         0.1215         mg/Kg         122         70 - 130           Toluene         0.100         0.09515         mg/Kg         95         70 - 130           Ethylbenzene         0.100         0.09010         mg/Kg         90         70 - 130           m-Xylene & p-Xylene         0.200         0.1872         mg/Kg         94         70 - 130	Analyte         Added         Result         Qualifier         Unit         D         %Rec         Limits         RPD           Benzene         0.100         0.1215         mg/Kg         122         70 - 130         6           Toluene         0.100         0.09515         mg/Kg         95         70 - 130         1           Ethylbenzene         0.100         0.09010         mg/Kg         90         70 - 130         11           m-Xylene & p-Xylene         0.200         0.1872         mg/Kg         94         70 - 130         18

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1.4-Difluorobenzene (Surr)	111	70 - 130

Lab Sample ID: 880-28852-A-4-C MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

Analysis Batch: 54444

Prep Type: Total/NA

Prep Batch: 54428

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.1230		mg/Kg		122	70 - 130	
Toluene	< 0.00199	U	0.101	0.08215		mg/Kg		81	70 - 130	
Ethylbenzene	< 0.00199	U F1	0.101	0.06967	F1	mg/Kg		69	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1305	F1	mg/Kg		64	70 - 130	
o-Xylene	<0.00199	U F1	0.101	0.06536	F1	mg/Kg		65	70 - 130	

Client: Carmona Resources

Job ID: 880-28857-1 Project/Site: Stratocaster 20 Fed 3&4 (4.01.23) SDG: Lea County, New Mexico

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

Lab Sample ID: 880-28852-A-4-C MS Client Sample ID: Matrix Spike Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 54444

Prep Batch: 54428 MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	76		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: 880-28852-A-4-D MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

Analysis Batch: 54444

Prep Type: Total/NA Prep Batch: 54428

Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<0.00199	U	0.100	0.1182		mg/Kg		118	70 - 130	4	35
<0.00199	U	0.100	0.08174		mg/Kg		82	70 - 130	1	35
<0.00199	U F1	0.100	0.07111		mg/Kg		71	70 - 130	2	35
<0.00398	U F1	0.200	0.1343	F1	mg/Kg		67	70 - 130	3	35
<0.00199	U F1	0.100	0.06799	F1	mg/Kg		68	70 - 130	4	35
	Result <0.00199 <0.00199 <0.00199 <0.00398	<0.00199 U <0.00199 U F1 <0.00398 U F1	Result   Qualifier   Added	Result         Qualifier         Added         Result           <0.00199	Result         Qualifier         Added         Result         Qualifier           <0.00199	Result         Qualifier         Added         Result         Qualifier         Unit           <0.00199	Result         Qualifier         Added         Result         Qualifier         Unit         D           <0.00199	Result         Qualifier         Added         Result         Qualifier         Unit         D         %Rec           <0.00199	Result         Qualifier         Added         Result         Qualifier         Unit         D         %Rec         Limits           <0.00199	Result         Qualifier         Added         Result         Qualifier         Unit         D         %Rec         Limits         RPD           <0.00199

MSD MSD %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 84 70 - 130 1,4-Difluorobenzene (Surr) 115 70 - 130

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

Lab Sample ID: MB 880-54278/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Prep Batch: 54278

Analysis Batch: 54321

	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		05/26/23 17:20	05/28/23 09:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/26/23 17:20	05/28/23 09:01	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/26/23 17:20	05/28/23 09:01	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 05/26/23 17:20 1-Chlorooctane 91 70 - 130 05/28/23 09:01 o-Terphenyl 90 70 - 130 05/26/23 17:20 05/28/23 09:01

Lab Sample ID: LCS 880-54278/2-A **Client Sample ID: Lab Control Sample** 

Analysis Batch: 54321

**Matrix: Solid** 

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	852.0		mg/Kg		85	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	839.9		mg/Kg		84	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	91		70 - 130

**Eurofins Midland** 

Prep Type: Total/NA Prep Batch: 54278

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23) SDG: Lea County, New Mexico

Job ID: 880-28857-1

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

Lab Sample ID: LCSD 880-54278/3-A

Analysis Batch: 54321

**Matrix: Solid** 

Client Sample ID: Lab Control Sample Dup

70 - 130

89

Prep Type: Total/NA Prep Batch: 54278

5

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 54278

Spike LCSD LCSD RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D Gasoline Range Organics 1000 851.4 mg/Kg 85 70 - 130 0 20 (GRO)-C6-C10

887.0

mg/Kg

1000

Diesel Range Organics (Over C10-C28)

LCSD LCSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 101 o-Terphenyl 95 70 - 130

Lab Sample ID: 880-28857-1 MS Client Sample ID: S-1 (0-0.25')

Matrix: Solid

Analysis Batch: 54321

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <50.0 U F1 997 Gasoline Range Organics 564.0 F1 mg/Kg 57 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 997 743.0 mg/Kg 71 70 - 130 C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 91 70 - 130 o-Terphenyl 81 70 - 130

Lab Sample ID: 880-28857-1 MSD Client Sample ID: S-1 (0-0.25')

**Matrix: Solid** 

Analysis Batch: 54321

Prep Batch: 54278 Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit <50.0 U F1 997 603.3 F1 61 20 Gasoline Range Organics 70 - 130 mg/Kg (GRO)-C6-C10 <50.0 U 997 799.1 76 70 - 130 20 Diesel Range Organics (Over mg/Kg

C10-C28)

MSD MSD Qualifier Limits Surrogate %Recovery 1-Chlorooctane 98 70 - 130 85 70 - 130 o-Terphenyl

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

Lab Sample ID: MB 880-54269/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 54394

MB MB Analyte Result Qualifier RL MDL Dil Fac Unit D Prepared Analyzed Chloride <5.00 U 5.00 05/30/23 09:19 mg/Kg

20

Client: Carmona Resources

Job ID: 880-28857-1 Project/Site: Stratocaster 20 Fed 3&4 (4.01.23) SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-54269/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** 

**Prep Type: Soluble** 

Analysis Batch: 54394

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 245.7 mg/Kg 98 90 - 110

Client Sample ID: Lab Control Sample Dup

**Prep Type: Soluble** 

Analysis Batch: 54394

**Matrix: Solid** 

Lab Sample ID: LCSD 880-54269/3-A

Spike LCSD LCSD %Rec RPD Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Chloride 250 245.9 mg/Kg 98 90 - 110 0

Lab Sample ID: 880-28857-6 MS Client Sample ID: S-5 (0-0.25') **Matrix: Solid** 

**Prep Type: Soluble** 

Analysis Batch: 54394

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 2550 F1 2510 4774 F1 90 - 110 mg/Kg

Lab Sample ID: 880-28857-6 MSD Client Sample ID: S-5 (0-0.25') **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 54394

MSD MSD Spike RPD Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec RPD Limit Limits 2550 2510 Chloride F1 4781 F1 89 90 - 110 20 mg/Kg

# **QC Association Summary**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28857-1 SDG: Lea County, New Mexico

#### **GC VOA**

#### Analysis Batch: 54337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28857-1	S-1 (0-0.25')	Total/NA	Solid	8021B	54365
880-28857-2	S-2 (0-0.25')	Total/NA	Solid	8021B	54365
880-28857-3	S-2 (0.5')	Total/NA	Solid	8021B	54365
MB 880-54365/5-A	Method Blank	Total/NA	Solid	8021B	54365
LCS 880-54365/1-A	Lab Control Sample	Total/NA	Solid	8021B	54365
LCSD 880-54365/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54365
880-28876-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	54365
880-28876-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	54365

#### Prep Batch: 54365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-28857-1	S-1 (0-0.25')	Total/NA	Solid	5035	<u> </u>
880-28857-2	S-2 (0-0.25')	Total/NA	Solid	5035	
880-28857-3	S-2 (0.5')	Total/NA	Solid	5035	
MB 880-54365/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54365/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54365/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-28876-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-28876-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Prep Batch: 54425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-54425/5-A	Method Blank	Total/NA	Solid	5035	

#### Prep Batch: 54428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28857-4	S-3 (0-0.25')	Total/NA	Solid	5035	
880-28857-5	S-4 (0-0.25')	Total/NA	Solid	5035	
880-28857-6	S-5 (0-0.25')	Total/NA	Solid	5035	
MB 880-54428/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54428/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54428/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-28852-A-4-C MS	Matrix Spike	Total/NA	Solid	5035	
880-28852-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 54444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28857-4	S-3 (0-0.25')	Total/NA	Solid	8021B	54428
880-28857-5	S-4 (0-0.25')	Total/NA	Solid	8021B	54428
880-28857-6	S-5 (0-0.25')	Total/NA	Solid	8021B	54428
MB 880-54425/5-A	Method Blank	Total/NA	Solid	8021B	54425
MB 880-54428/5-A	Method Blank	Total/NA	Solid	8021B	54428
LCS 880-54428/1-A	Lab Control Sample	Total/NA	Solid	8021B	54428
LCSD 880-54428/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54428
880-28852-A-4-C MS	Matrix Spike	Total/NA	Solid	8021B	54428
880-28852-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	54428

#### Analysis Batch: 54470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28857-1	S-1 (0-0.25')	Total/NA	Solid	Total BTEX	
880-28857-2	S-2 (0-0.25')	Total/NA	Solid	Total BTEX	

**Eurofins Midland** 

Page 18 of 27

Released to Imaging: 11/29/2023 3:17:41 PM

2

3

4

6

8

111

13

# **QC Association Summary**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28857-1 SDG: Lea County, New Mexico

# GC VOA (Continued)

#### **Analysis Batch: 54470 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28857-3	S-2 (0.5')	Total/NA	Solid	Total BTEX	
880-28857-4	S-3 (0-0.25')	Total/NA	Solid	Total BTEX	
880-28857-5	S-4 (0-0.25')	Total/NA	Solid	Total BTEX	
880-28857-6	S-5 (0-0.25')	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

#### Prep Batch: 54278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28857-1	S-1 (0-0.25')	Total/NA	Solid	8015NM Prep	
880-28857-2	S-2 (0-0.25')	Total/NA	Solid	8015NM Prep	
880-28857-3	S-2 (0.5')	Total/NA	Solid	8015NM Prep	
880-28857-4	S-3 (0-0.25')	Total/NA	Solid	8015NM Prep	
880-28857-5	S-4 (0-0.25')	Total/NA	Solid	8015NM Prep	
880-28857-6	S-5 (0-0.25')	Total/NA	Solid	8015NM Prep	
MB 880-54278/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54278/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54278/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28857-1 MS	S-1 (0-0.25')	Total/NA	Solid	8015NM Prep	
880-28857-1 MSD	S-1 (0-0.25')	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 54321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28857-1	S-1 (0-0.25')	Total/NA	Solid	8015B NM	54278
880-28857-2	S-2 (0-0.25')	Total/NA	Solid	8015B NM	54278
880-28857-3	S-2 (0.5')	Total/NA	Solid	8015B NM	54278
880-28857-4	S-3 (0-0.25')	Total/NA	Solid	8015B NM	54278
880-28857-5	S-4 (0-0.25')	Total/NA	Solid	8015B NM	54278
880-28857-6	S-5 (0-0.25')	Total/NA	Solid	8015B NM	54278
MB 880-54278/1-A	Method Blank	Total/NA	Solid	8015B NM	54278
LCS 880-54278/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54278
LCSD 880-54278/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54278
880-28857-1 MS	S-1 (0-0.25')	Total/NA	Solid	8015B NM	54278
880-28857-1 MSD	S-1 (0-0.25')	Total/NA	Solid	8015B NM	54278

#### Analysis Batch: 54355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28857-1	S-1 (0-0.25')	Total/NA	Solid	8015 NM	
880-28857-2	S-2 (0-0.25')	Total/NA	Solid	8015 NM	
880-28857-3	S-2 (0.5')	Total/NA	Solid	8015 NM	
880-28857-4	S-3 (0-0.25')	Total/NA	Solid	8015 NM	
880-28857-5	S-4 (0-0.25')	Total/NA	Solid	8015 NM	
880-28857-6	S-5 (0-0.25')	Total/NA	Solid	8015 NM	

#### HPLC/IC

#### Leach Batch: 54269

Г					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28857-1	S-1 (0-0.25')	Soluble	Solid	DI Leach	
880-28857-2	S-2 (0-0.25')	Soluble	Solid	DI Leach	
880-28857-3	S-2 (0.5')	Soluble	Solid	DI Leach	
880-28857-4	S-3 (0-0.25')	Soluble	Solid	DI Leach	

**Eurofins Midland** 

Page 19 of 27

1

2

5

g

10

# **QC Association Summary**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28857-1

SDG: Lea County, New Mexico

# HPLC/IC (Continued)

#### Leach Batch: 54269 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28857-5	S-4 (0-0.25')	Soluble	Solid	DI Leach	
880-28857-6	S-5 (0-0.25')	Soluble	Solid	DI Leach	
MB 880-54269/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54269/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54269/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28857-6 MS	S-5 (0-0.25')	Soluble	Solid	DI Leach	
880-28857-6 MSD	S-5 (0-0.25')	Soluble	Solid	DI Leach	

#### Analysis Batch: 54394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28857-1	S-1 (0-0.25')	Soluble	Solid	300.0	54269
880-28857-2	S-2 (0-0.25')	Soluble	Solid	300.0	54269
880-28857-3	S-2 (0.5')	Soluble	Solid	300.0	54269
880-28857-4	S-3 (0-0.25')	Soluble	Solid	300.0	54269
880-28857-5	S-4 (0-0.25')	Soluble	Solid	300.0	54269
880-28857-6	S-5 (0-0.25')	Soluble	Solid	300.0	54269
MB 880-54269/1-A	Method Blank	Soluble	Solid	300.0	54269
LCS 880-54269/2-A	Lab Control Sample	Soluble	Solid	300.0	54269
LCSD 880-54269/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54269
880-28857-6 MS	S-5 (0-0.25')	Soluble	Solid	300.0	54269
880-28857-6 MSD	S-5 (0-0.25')	Soluble	Solid	300.0	54269

**Eurofins Midland** 

Released to Imaging: 11/29/2023 3:17:41 PM

Lab Sample ID: 880-28857-1

**Client Sample ID: S-1 (0-0.25')** 

Date Collected: 05/23/23 00:00 Date Received: 05/26/23 13:04

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	54365	05/30/23 09:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54337	05/30/23 18:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54470	05/31/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54355	05/30/23 09:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54278	05/26/23 17:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54321	05/28/23 11:53	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	54269	05/26/23 16:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54394	05/30/23 10:23	CH	EET MID

**Client Sample ID: S-2 (0-0.25')** 

Date Collected: 05/23/23 00:00

Date Received: 05/26/23 13:04

Lab Sample ID: 880-28857-2

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			5.03 g	5 mL	54365	05/30/23 09:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54337	05/30/23 19:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54470	05/31/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54355	05/30/23 09:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54278	05/26/23 17:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54321	05/28/23 12:59	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54269	05/26/23 16:13	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	54394	05/30/23 10:28	CH	EET MID

Client Sample ID: S-2 (0.5') Lab Sample ID: 880-28857-3 Date Collected: 05/23/23 00:00 **Matrix: Solid** 

Date Received: 05/26/23 13:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	54365	05/30/23 09:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54337	05/30/23 19:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54470	05/31/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54355	05/30/23 09:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54278	05/26/23 17:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54321	05/28/23 13:21	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	54269	05/26/23 16:13	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	54394	05/30/23 10:34	CH	EET MID

Client Sample ID: S-3 (0-0.25') Lab Sample ID: 880-28857-4

Date Collected: 05/23/23 00:00 Date Received: 05/26/23 13:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54428	05/30/23 15:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54444	05/31/23 23:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54470	06/01/23 09:26	SM	EET MID

**Eurofins Midland** 

Page 21 of 27

**Matrix: Solid** 

Job ID: 880-28857-1

SDG: Lea County, New Mexico

**Client Sample ID: S-3 (0-0.25')** 

Date Collected: 05/23/23 00:00 Date Received: 05/26/23 13:04 Lab Sample ID: 880-28857-4

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			54355	05/30/23 09:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54278	05/26/23 17:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54321	05/28/23 13:42	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54269	05/26/23 16:13	KS	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	54394	05/30/23 10:39	CH	EET MID

**Client Sample ID: S-4 (0-0.25')** Lab Sample ID: 880-28857-5

Date Collected: 05/23/23 00:00 Date Received: 05/26/23 13:04

**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			5.03 g	5 mL	54428	05/30/23 15:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54444	05/31/23 23:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54470	06/01/23 09:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			54355	05/30/23 09:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54278	05/26/23 17:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54321	05/28/23 14:04	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54269	05/26/23 16:13	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	54394	05/30/23 10:44	CH	EET MID

**Client Sample ID: S-5 (0-0.25')** Lab Sample ID: 880-28857-6

Date Collected: 05/23/23 00:00 Date Received: 05/26/23 13:04

	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	54428	05/30/23 15:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54444	06/01/23 00:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54470	06/01/23 09:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			54355	05/30/23 09:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54278	05/26/23 17:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54321	05/28/23 14:26	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	54269	05/26/23 16:13	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	54394	05/30/23 10:50	CH	EET MID

Laboratory References:

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

**Eurofins Midland** 

**Matrix: Solid** 

# **Accreditation/Certification Summary**

Client: Carmona Resources

Job ID: 880-28857-1 Project/Site: Stratocaster 20 Fed 3&4 (4.01.23) SDG: Lea County, New Mexico

#### **Laboratory: Eurofins Midland**

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

Authority	Pr	ogram	Identification Number	<b>Expiration Date</b>
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for w
the agency does not of	fer certification.	,,	ou by the generaling duriently.	ay molado analytoo for w
the agency does not of Analysis Method	fer certification.  Prep Method	Matrix	Analyte	ay molade analytee for the
0 ,		•	, , ,	

#### **Method Summary**

Client: Carmona Resources

Method

8021B

Total BTEX

8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28857-1

SDG: Lea County, New Mexico

**EET MID** 

ASTM

Method Description	Protocol	Laboratory
Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX Calculation	TAL SOP	EET MID
Diesel Range Organics (DRO) (GC)	SW846	EET MID
Diesel Range Organics (DRO) (GC)	SW846	EET MID
Anions, Ion Chromatography	EPA	EET MID
Closed System Purge and Trap	SW846	EET MID
Microextraction	SW846	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

**Deionized Water Leaching 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: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28857-1

SDG: Lea County, New Mexico

3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28857-1	S-1 (0-0.25')	Solid	05/23/23 00:00	05/26/23 13:04
880-28857-2	S-2 (0-0.25')	Solid	05/23/23 00:00	05/26/23 13:04
880-28857-3	S-2 (0.5')	Solid	05/23/23 00:00	05/26/23 13:04
880-28857-4	S-3 (0-0.25')	Solid	05/23/23 00:00	05/26/23 13:04
880-28857-5	S-4 (0-0.25')	Solid	05/23/23 00:00	05/26/23 13:04
880-28857-6	S-5 (0-0.25')	Solid	05/23/23 00:00	05/26/23 13:04

4

5

6

Q

10

12

13

	3			Comments Email to					S-5 (0-0 25')	S-4 (0-0.25')	S-3 (0-0 25)	S-2 (0 5')	S-2 (0-0 25)	S-1 (0-0 25)	Sample Identification	Lotal Containers	Salliple Cusiony Seals	Sample Custody Seals	Deceived Hilact.	Described Intest		DO#	Project Location	Project Number	Project Name			City, State ZIP Mi	Address 31	Company Name Ca	Project Manager Co	
	,	R		Mike Carmor						3	3		3	3	cation		l es		Αd		-		Lea Co		Stratocaste	402-010-0020	0 040 0000	Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources	Conner Moehring	
		linquished by		ia / Mcarmo					5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	Date		No.			No.		MM	Lea County, New Mexico	2035	Stratocaster 20 Fed 3&4 (4 01 23)			으	te 500	rces	9	
	V	Relinquished by (Signature)		na@carmona											Time	Corrected Temperature	emperature Reading	Correction Factor	i neimometer iD	Yes 16			exico		(4 01 23)							
				resources co					×	×	×	×	×	×	Soil	berature	eading	Or.		Wet ice			Due Date	Routine	Te le	Email						
				Email to Mike Carmona / Mcarmona@carmonaresources com and Conner Moehring / Cmoehring@carmonaresources com											Water c			, 0	4	16 N	ı		72 Hrs	√ Rush	Turn Around	ail  mcarmona@carmonaresources com		City State ZIP	Address.	Company Name	Bill to (if different)	
	N.			yr Moehri					G 1	G 1	G 1	G 1	G 1	<b>ω</b>	Grab/ # of Comp   Cont			<u>Y</u>	ara	met				Code	-	@carmon:		ס ו		me	ent)	
	126	Date		ng / Cm					×	×	×	×	×	×	<u> </u>	<u> </u>	E			21B				1 1	1	aresourc	-				Cam	
		Date/Time		oehmi					×	×	×	×	×	×	TPI	H 80	15M	(G	₹0	+ DR	0+	MRC	))			es com					Carmona Resources	
$\downarrow$	X or			у@сагп					×	×	×	×	×	×			С	hlori	de :	300.0	)			igg							sources	
		ᅦ	נ	nonares		_		_			_			-							•••••			-								
	4			source		-	-	$\dashv$		$\dashv$	-			$\dashv$	······						********			-	ANA							
	X	-		scom																					LYSIS							
		Receive				_		_			_	_	_	1											ANALYSIS REQUEST				S.			
	l II	d by: (S			1	-	+	$\dashv$	1	-	-	-	1	_	· · · · · · · · · · · · · · · · · · ·								*****	$\vdash$	TS	eliverable		portina	State of Project:	ogram:		
		(Signature)	>																		• • • • • •					Deliverables EDD		Reporting Level II   Level III	oject:	Program: UST/PST PRP Irownfields		
		e)			-		_	1		-	_	_	_	_										-			] [	level	{	PR	Wor	
					_	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	1	1	-	$\frac{1}{1}$			·							$\vdash$		ADa			ı	Trov	( Order	
					1	1	1	1				1	1	1	60	NaOH	Zn Ac	Na <sub>2</sub> S <sub>2</sub>	NaHS	H₃PO₄ HP	H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub>	HCL HC	Cool Cool	None NO		ADaPT L	] 9	TSI//IST		nfields	Work Order Comments	τ.
+		-													ample	+Ascorbi	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	퓻	¥	ਨ	Ool	Ö	reserva	Other		N N N N N N N N N N N N N N N N N N N	Ę	7 8	ıments	ĩ
		Date/Time													Sample Comments	NaOH+Ascorbic Acid SAPC	OH Zn	္မ	Ö		NaOH Na	HNO3 HN	MeOH Me	DI Water: H <sub>2</sub> O	Preservative Codes	ļ.	[[במימו וי		_	Derfund		

Wc 880-28857 Chain of Custody

6/1/2023

# **Login Sample Receipt Checklist**

Client: Carmona Resources Job Number: 880-28857-1 SDG Number: Lea County, New Mexico

List Source: Eurofins Midland

Login Number: 28857 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 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	N/A	

<6mm (1/4").

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

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

Generated 5/31/2023 10:16:12 AM

# **JOB DESCRIPTION**

Stratocaster 20 Fed 3&4 (4.01.23) SDG NUMBER Lea County, New Mexico

# **JOB NUMBER**

880-28854-1

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 5/31/2023 10:16:12 AM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 Client: Carmona Resources Project/Site: Stratocaster 20 Fed 3&4 (4.01.23) Laboratory Job ID: 880-28854-1 SDG: Lea County, New Mexico

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	18
Lab Chronicle	21
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receint Checklists	27

2

3

4

6

8

10

11

13

**Qualifier Description** 

#### **Definitions/Glossary**

Client: Carmona Resources Job ID: 880-28854-1 Project/Site: Stratocaster 20 Fed 3&4 (4.01.23) SDG: Lea County, New Mexico

#### **Qualifiers**

GC	<b>VOA</b>
Qual	ifier

*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.

Indicates the analyte was analyzed for but not detected.

#### GC Semi VOA

U

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

#### HPLC/IC

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

#### **Glossary**

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

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

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

MDL Method Detection Limit MI 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 Practical Quantitation Limit **PQL** 

**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/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28854-1

SDG: Lea County, New Mexico

Job ID: 880-28854-1

**Laboratory: Eurofins Midland** 

Narrative

Job Narrative 880-28854-1

#### Receipt

The samples were received on 5/26/2023 1:04 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-28854-1), H-2 (0-0.5') (880-28854-2), H-3 (0-0.5') (880-28854-3), H-4 (0-0.5') (880-28854-4), H-5 (0-0.5') (880-28854-5) and H-6 (0-0.5') (880-28854-6).

#### GC VOA

Method 8021B: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-54263 and analytical batch 880-54207. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8021B: LCS biased high for benzene. Since the method only requires an LCS or LCSD to be acceptable, the data was qualified and reported. (LCS 880-54263/1-A)

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

#### GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-54267 and analytical batch 880-54316 was outside the upper control limits.

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

#### HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-54268 and analytical batch 880-54393 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

# **Client Sample Results**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28854-1 SDG: Lea County, New Mexico

L = |- 0 - --- | - | D = 000 00054 4

Lab Sample ID: 880-28854-1

Matrix: Solid

Client Sample ID: H-1	(0-0.5')
Data Callagtade 05/22/22 0	0.00

Date Received: 05/26/23 13:04

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199		mg/Kg		05/26/23 15:25	05/27/23 16:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/26/23 15:25	05/27/23 16:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/26/23 15:25	05/27/23 16:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/26/23 15:25	05/27/23 16:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/26/23 15:25	05/27/23 16:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/26/23 15:25	05/27/23 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				05/26/23 15:25	05/27/23 16:04	1
1,4-Difluorobenzene (Surr)	73		70 - 130				05/26/23 15:25	05/27/23 16:04	1
Method: TAL SOP Total BTEX	- Total BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/30/23 13:01	1
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Total TDU	44E								
Total TPH	415		49.9		mg/Kg			05/30/23 15:27	1
•	esel Range Orga				mg/Kg			05/30/23 15:27	1
Method: SW846 8015B NM - Di Analyte	esel Range Orga Result	Qualifier		MDL	Unit	<u>D</u>	Prepared	05/30/23 15:27  Analyzed	·
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics	esel Range Orga	Qualifier	(GC)	MDL		<u>D</u>	Prepared 05/26/23 15:58		Dil Fac
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	esel Range Orga Result	Qualifier	(GC)	MDL	Unit	<u>D</u>	<u>·</u>	Analyzed	Dil Fac
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	esel Range Orga Result <49.9	Qualifier	(GC) RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	05/26/23 15:58 05/26/23 15:58	Analyzed 05/27/23 15:47 05/27/23 15:47	Dil Fac
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	esel Range Orga Result <49.9	Qualifier	(GC) RL 49.9	MDL	Unit mg/Kg	<u> </u>	05/26/23 15:58	<b>Analyzed</b> 05/27/23 15:47	Dil Fac
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	esel Range Orga Result <49.9	Qualifier U	(GC) RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	05/26/23 15:58 05/26/23 15:58	Analyzed 05/27/23 15:47 05/27/23 15:47	Dil Fac
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U	(GC)  RL 49.9  49.9  49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	05/26/23 15:58 05/26/23 15:58 05/26/23 15:58	Analyzed 05/27/23 15:47 05/27/23 15:47 05/27/23 15:47	Dil Fac 1 1

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

Date Collected: 05/23/23 00:00

Lab Sample ID: 880-28854-2

Matrix: Solid

RL

4.98

MDL Unit

mg/Kg

D

Prepared

Analyzed

05/30/23 10:09

Dil Fac

Result Qualifier

67.4

Date Received: 05/26/23 13:04

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199		mg/Kg		05/26/23 15:25	05/27/23 16:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/26/23 15:25	05/27/23 16:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/26/23 15:25	05/27/23 16:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/26/23 15:25	05/27/23 16:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/26/23 15:25	05/27/23 16:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/26/23 15:25	05/27/23 16:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				05/26/23 15:25	05/27/23 16:25	1
1,4-Difluorobenzene (Surr)	95		70 - 130				05/26/23 15:25	05/27/23 16:25	1

**Eurofins Midland** 

3

5

7

0

10

12

13

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28854-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-28854-2

Matrix: Solid

Client Sample ID: H-2 (0-0.5')
Date Collected: 05/23/23 00:00

Date Received: 05/26/23 13:04

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/30/23 13:01	1
Method: SW846 8015 NM - Dies	el Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	220		49.8		mg/Kg			05/30/23 15:27	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		05/26/23 15:58	05/27/23 16:32	1
(GRO)-C6-C10									
Diesel Range Organics (Over	108		49.8		mg/Kg		05/26/23 15:58	05/27/23 16:32	1
C10-C28)									
Oll Range Organics (Over	112		49.8		mg/Kg		05/26/23 15:58	05/27/23 16:32	1
C28-C36)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				05/26/23 15:58	05/27/23 16:32	1
o-Terphenyl	102		70 - 130				05/26/23 15:58	05/27/23 16:32	1
Method: EPA 300.0 - Anions, Io	n Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.9		4.99		mg/Kg			05/30/23 10:25	

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

Date Collected: 05/23/23 00:00

Lab Sample ID: 880-28854-3

Matrix: Solid

Date Received: 05/26/23 13:04

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201		mg/Kg		05/26/23 15:25	05/27/23 16:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/26/23 15:25	05/27/23 16:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/26/23 15:25	05/27/23 16:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/26/23 15:25	05/27/23 16:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/26/23 15:25	05/27/23 16:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/26/23 15:25	05/27/23 16:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/26/23 15:25	05/27/23 16:45	1
1,4-Difluorobenzene (Surr)	115		70 - 130				05/26/23 15:25	05/27/23 16:45	1
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX		culation	70 - 130				05/26/23 15:25	05/27/23 16:45	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation Qualifier	70 <sub>-</sub> 130 RL	MDL	Unit	D	05/26/23 15:25  Prepared	05/27/23 16:45 Analyzed	1 Dil Fac
·	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00402	<b>Qualifier</b> U	RL	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00402 esel Range Organ	<b>Qualifier</b> U	RL	MDL	mg/Kg	<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00402 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00402		mg/Kg		Prepared	Analyzed 05/30/23 13:01	1
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00402 esel Range Organ Result <49.8	Qualifier U ics (DRO) ( Qualifier U	RL 0.00402 ——————————————————————————————————		mg/Kg		Prepared	Analyzed 05/30/23 13:01	1
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00402 esel Range Organ Result <49.8 diesel Range Organ	Qualifier U ics (DRO) ( Qualifier U	RL 0.00402 ——————————————————————————————————		mg/Kg  Unit mg/Kg		Prepared	Analyzed 05/30/23 13:01	1

**Eurofins Midland** 

(GRO)-C6-C10

3

4

6

9

11

13

# **Client Sample Results**

Client: Carmona Resources

Job ID: 880-28854-1 Project/Site: Stratocaster 20 Fed 3&4 (4.01.23) SDG: Lea County, New Mexico

Lab Sample ID: 880-28854-3

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

Date Collected: 05/23/23 00:00 Date Received: 05/26/23 13:04

**Matrix: Solid** 

Method: SW846 8015B NM - Diese	el Range Orga	nics (DRO)	(GC) (Continue	ed)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		05/26/23 15:58	05/27/23 16:55	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/26/23 15:58	05/27/23 16:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				05/26/23 15:58	05/27/23 16:55	1
o-Terphenyl	96		70 - 130				05/26/23 15:58	05/27/23 16:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride 4.99 05/30/23 10:30 90.0 mg/Kg

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

Date Collected: 05/23/23 00:00

Date Received: 05/26/23 13:04

Lab Sample ID: 880-28854-4

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 05/27/23 17:06 Benzene <0.00201 U\*+ 0.00201 mg/Kg 05/26/23 15:25 Toluene <0.00201 U 0.00201 05/26/23 15:25 05/27/23 17:06 mg/Kg Ethylbenzene <0.00201 0.00201 mg/Kg 05/26/23 15:25 05/27/23 17:06 m-Xylene & p-Xylene <0.00402 U 0.00402 mg/Kg 05/26/23 15:25 05/27/23 17:06 o-Xylene <0.00201 U 0.00201 mg/Kg 05/26/23 15:25 05/27/23 17:06 Xylenes, Total <0.00402 U 0.00402 mg/Kg 05/26/23 15:25 05/27/23 17:06

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92	70 - 130	05/26/23 15:25	05/27/23 17:06	1
1,4-Difluorobenzene (Surr)	78	70 - 130	05/26/23 15:25	05/27/23 17:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	<0.00402	U	0.00402		mg/Kg			05/30/23 13:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<50.0	U	50.0		mg/Kg			05/30/23 15:27	1

_ _									
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 17:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 17:17	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 17:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				05/26/23 15:58	05/27/23 17:17	1
o-Terphenyl	101		70 - 130				05/26/23 15:58	05/27/23 17:17	1

Method: EPA 300.0 - Anions, Ion Cl	nromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136	5.00	mg/Kg			05/30/23 10:35	1

**Eurofins Midland** 

5/31/2023

# **Client Sample Results**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28854-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-28854-5

Matrix: Solid

**Client Sample ID: H-5 (0-0.5')** Date Collected: 05/23/23 00:00

Date Received: 05/26/23 13:04

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *+	0.00202		mg/Kg		05/26/23 15:25	05/27/23 17:26	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/26/23 15:25	05/27/23 17:26	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/26/23 15:25	05/27/23 17:26	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/26/23 15:25	05/27/23 17:26	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/26/23 15:25	05/27/23 17:26	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/26/23 15:25	05/27/23 17:26	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	112		70 - 130				05/26/23 15:25	05/27/23 17:26	
1,4-Difluorobenzene (Surr)	93		70 - 130				05/26/23 15:25	05/27/23 17:26	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/30/23 13:01	
			GC)		3 3				
Method: SW846 8015 NM - Diese Analyte	I Range Organ Result	ics (DRO) (	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte	l Range Organ	ics (DRO) (	•	MDL		<u>D</u>	Prepared	Analyzed 05/30/23 15:27	
Method: SW846 8015 NM - Diese Analyte Total TPH	Result <49.9	ics (DRO) ( Qualifier	RL 49.9	MDL	Unit	<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	I Range Organ Result <a href="#">&lt;49.9</a> sel Range Organ	ics (DRO) ( Qualifier	RL 49.9		Unit	<u>D</u>	Prepared Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	I Range Organ Result <a href="#">&lt;49.9</a> sel Range Organ	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)		Unit mg/Kg		<u> </u>	05/30/23 15:27	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	I Range Organ Result <a href="#">49.9</a> sel Range Orga Result	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	RL 49.9 (GC)		Unit mg/Kg		Prepared	05/30/23 15:27  Analyzed	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)	I Range Organ Result 49.9 sel Range Orga Result  49.9	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	RL 49.9  (GC) RL 49.9		Unit mg/Kg  Unit mg/Kg		Prepared 05/26/23 15:58	05/30/23 15:27  Analyzed  05/27/23 17:40	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) Oll Range Organics (Over C28-C36)	I Range Organ Result 49.9 sel Range Orga Result  49.9	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U	RL 49.9  (GC) RL 49.9  49.9		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 05/26/23 15:58 05/26/23 15:58	05/30/23 15:27  Analyzed  05/27/23 17:40  05/27/23 17:40	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) Oll Range Organics (Over C28-C36)  Surrogate	I Range Organ Result 49.9 sel Range Orga Result  49.9 49.9	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U	RL 49.9  (GC) RL 49.9  49.9  49.9		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 05/26/23 15:58 05/26/23 15:58 05/26/23 15:58	05/30/23 15:27  Analyzed 05/27/23 17:40 05/27/23 17:40 05/27/23 17:40	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) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	I Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 05/26/23 15:58 05/26/23 15:58 05/26/23 15:58 Prepared	05/30/23 15:27  Analyzed 05/27/23 17:40 05/27/23 17:40 05/27/23 17:40  Analyzed	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) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	I Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9  %Recovery 94 98	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U  Qualifier	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 05/26/23 15:58 05/26/23 15:58 05/26/23 15:58 Prepared 05/26/23 15:58	05/30/23 15:27  Analyzed 05/27/23 17:40 05/27/23 17:40  Analyzed 05/27/23 17:40	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) Oll Range Organics (Over C28-C36)  Surrogate	I Range Organ Result <49.9  sel Range Orga Result <49.9 <49.9 <49.9  %Recovery 94 98  Chromatograp	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits  70 - 130  70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg mg/Kg		Prepared 05/26/23 15:58 05/26/23 15:58 05/26/23 15:58 Prepared 05/26/23 15:58	05/30/23 15:27  Analyzed 05/27/23 17:40 05/27/23 17:40  Analyzed 05/27/23 17:40	Dil Fac

Client Sample ID: H-6 (0-0.5') Lab Sample ID: 880-28854-6 Date Collected: 05/23/23 00:00 **Matrix: Solid** 

Date Received: 05/26/23 13:04

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199		mg/Kg		05/26/23 15:25	05/27/23 17:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/26/23 15:25	05/27/23 17:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/26/23 15:25	05/27/23 17:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/26/23 15:25	05/27/23 17:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/26/23 15:25	05/27/23 17:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/26/23 15:25	05/27/23 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				05/26/23 15:25	05/27/23 17:47	1
1.4-Difluorobenzene (Surr)	71		70 - 130				05/26/23 15:25	05/27/23 17:47	1

# **Client Sample Results**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

SDG: Lea County, New Mexico

Job ID: 880-28854-1

Lab Sample ID: 880-28854-6

Matrix: Solid

Client Sample ID: H-6 (0-0.5')
Date Collected: 05/23/23 00:00

Date Received: 05/26/23 13:04

Method: TAL SOP Total BTEX -	<b>Total BTEX Cald</b>	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/30/23 13:01	1
- Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/30/23 15:27	1
- Method: SW846 8015B NM - Did	esel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 18:03	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 18:03	1
C10-C28)									

OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	05/26/23 15:58	05/27/23 18:03	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130		05/26/23 15:58	05/27/23 18:03	1
o-Terphenyl	102		70 - 130		05/26/23 15:58	05/27/23 18:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	312	5.04		mg/Kg			05/30/23 10:46	1

# **Surrogate Summary**

Client: Carmona Resources

Job ID: 880-28854-1 Project/Site: Stratocaster 20 Fed 3&4 (4.01.23) SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-28743-A-5-D MS	Matrix Spike	114	109	
880-28743-A-5-E MSD	Matrix Spike Duplicate	67 S1-	97	
880-28854-1	H-1 (0-0.5')	100	73	
880-28854-2	H-2 (0-0.5')	107	95	
880-28854-3	H-3 (0-0.5')	111	115	
880-28854-4	H-4 (0-0.5')	92	78	
880-28854-5	H-5 (0-0.5')	112	93	
880-28854-6	H-6 (0-0.5')	94	71	
880-28876-A-1-A MS	Matrix Spike	105	103	
880-28876-A-1-B MSD	Matrix Spike Duplicate	99	110	
LCS 880-54263/1-A	Lab Control Sample	87	114	
LCS 880-54365/1-A	Lab Control Sample	106	101	
LCSD 880-54263/2-A	Lab Control Sample Dup	107	112	
LCSD 880-54365/2-A	Lab Control Sample Dup	99	103	
MB 880-54099/5-A	Method Blank	66 S1-	74	
MB 880-54263/5-A	Method Blank	66 S1-	82	
MB 880-54365/5-A	Method Blank	90	109	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
80-28851-A-21-D MS	Matrix Spike	98	90	
80-28851-A-21-E MSD	Matrix Spike Duplicate	97	90	
80-28854-1	H-1 (0-0.5')	96	99	
80-28854-2	H-2 (0-0.5')	97	102	
80-28854-3	H-3 (0-0.5')	93	96	
80-28854-4	H-4 (0-0.5')	100	101	
80-28854-5	H-5 (0-0.5')	94	98	
80-28854-6	H-6 (0-0.5')	96	102	
CS 880-54267/2-A	Lab Control Sample	84	91	
CSD 880-54267/3-A	Lab Control Sample Dup	100	106	
IB 880-54267/1-A	Method Blank	203 S1+	223 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Carmona Resources

Job ID: 880-28854-1 SDG: Lea County, New Mexico Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

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

Lab Sample ID: MB 880-54099/5-A

Analysis Batch: 54207

**Matrix: Solid** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54099

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/24/23 15:37	05/26/23 21:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/24/23 15:37	05/26/23 21:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/24/23 15:37	05/26/23 21:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/24/23 15:37	05/26/23 21:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/24/23 15:37	05/26/23 21:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/24/23 15:37	05/26/23 21:44	1
	MD	MD							

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prep	ared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	05/24/2	23 15:37	05/26/23 21:44	1
1,4-Difluorobenzene (Surr)	74		70 - 130	05/24/2	3 15:37	05/26/23 21:44	1

Lab Sample ID: MB 880-54263/5-A

Matrix: Solid

Analysis Batch: 54207

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

Prep Batch: 54263

	INID	MID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/26/23 15:25	05/27/23 08:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/26/23 15:25	05/27/23 08:20	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/26/23 15:25	05/27/23 08:20	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/26/23 15:25	05/27/23 08:20	•
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/26/23 15:25	05/27/23 08:20	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/26/23 15:25	05/27/23 08:20	

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	05/26/23 15:25	05/27/23 08:20	1
1,4-Difluorobenzene (Surr)	82		70 - 130	05/26/23 15:25	05/27/23 08:20	1

Lab Sample ID: LCS 880-54263/1-A

**Matrix: Solid** 

**Analysis Batch: 54207** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 54263

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.1319	*+	mg/Kg		132	70 - 130		_
Toluene	0.100	0.09762		mg/Kg		98	70 - 130		
Ethylbenzene	0.100	0.08723		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene	0.200	0.1692		mg/Kg		85	70 - 130		
o-Xylene	0.100	0.08550		mg/Kg		85	70 - 130		

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	87	70 - 130
1.4-Difluorobenzene (Surr)	114	70 - 130

Lab Sample ID: LCSD 880-54263/2-A

Matrix: Solid

**Analysis Batch: 54207** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54263

	<b>Бріке</b>	LCSD LCSD				%Rec		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1265	mg/Kg		127	70 - 130	4	35	

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28854-1

SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-54263/2-A

**Matrix: Solid** Analysis Batch: 54207 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 54263

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Toluene 0.100 0.1041 104 70 - 130 35 mg/Kg 6 Ethylbenzene 0.100 0.1019 mg/Kg 102 70 - 130 15 0.200 0.2115 70 - 130 m-Xylene & p-Xylene mg/Kg 106 22 35 0.100 o-Xylene 0.1078 mg/Kg 108 70 - 130 23

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-28743-A-5-D MS

**Matrix: Solid** 

**Analysis Batch: 54207** 

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

Prep Batch: 54263

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U *+ F1	0.101	0.1260		mg/Kg		125	70 - 130	
		F2								
Toluene	<0.00202	U F1 F2	0.101	0.1071		mg/Kg		106	70 - 130	
Ethylbenzene	<0.00202	U F1	0.101	0.1081		mg/Kg		107	70 - 130	
m-Xylene & p-Xylene	<0.00403	U F1	0.202	0.2268		mg/Kg		112	70 - 130	
o-Xylene	<0.00202	U F1	0.101	0.1153		mg/Kg		114	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-28743-A-5-E MSD

**Matrix: Solid** 

Analysis Batch: 54207

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 54263

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U *+ F1	0.0994	<0.00199	U F1 F2	mg/Kg		0.8	70 - 130	198	35
		F2									
Toluene	<0.00202	U F1 F2	0.0994	<0.00199	U F1 F2	mg/Kg		0.5	70 - 130	198	35
Ethylbenzene	<0.00202	U F1	0.0994	< 0.00199	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00403	U F1	0.199	<0.00398	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00202	U F1	0.0994	< 0.00199	U F1	mg/Kg		0	70 - 130	NC	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130		
1,4-Difluorobenzene (Surr)	97		70 - 130		

Lab Sample ID: MB 880-54365/5-A

**Matrix: Solid** 

**Analysis Batch: 54337** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54365

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:40	05/30/23 11:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:40	05/30/23 11:30	1

Client: Carmona Resources

Job ID: 880-28854-1 SDG: Lea County, New Mexico Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

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

Lab Sample ID: MB 880-54365/5-A

**Matrix: Solid** 

Analysis Batch: 54337

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

Prep Batch: 54365

Prep Batch: 54365

	MD	IVID						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/30/23 09:40	05/30/23 11:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/30/23 09:40	05/30/23 11:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/30/23 09:40	05/30/23 11:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/30/23 09:40	05/30/23 11:30	1

MB MB

MR MR

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90	70 - 130	05/30/23 09:40	05/30/23 11:30	1
1,4-Difluorobenzene (Surr)	109	70 - 130	05/30/23 09:40	05/30/23 11:30	1

Lab Sample ID: LCS 880-54365/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 54337

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09839		mg/Kg		98	70 - 130	
Toluene	0.100	0.09022		mg/Kg		90	70 - 130	
Ethylbenzene	0.100	0.08827		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	0.200	0.1870		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.09537		mg/Kg		95	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-54365/2-A

Matrix: Solid

Analysis Batch: 54337

	_				
Client 9	Sample	ו יחו	ah Conti	rol Sami	nla Dun

Prep Type: Total/NA

Prep Batch: 54365

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1284	mg/Kg		128	70 - 130	26	35
Toluene	0.100	0.1125	mg/Kg		113	70 - 130	22	35
Ethylbenzene	0.100	0.1041	mg/Kg		104	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.2159	mg/Kg		108	70 - 130	14	35
o-Xylene	0.100	0.1082	mg/Kg		108	70 - 130	13	35

LCSD LCSD

Surrogate	%Recovery (	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-28876-A-1-A MS

Matrix: Solid

Analysis Batch: 54337

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 54365

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00201	U	0.101	0.1210		mg/Kg		120	70 - 130
Toluene	<0.00201	U	0.101	0.1065		mg/Kg		106	70 - 130
Ethylbenzene	<0.00201	U	0.101	0.1040		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.202	0.2162		mg/Kg		107	70 - 130

**Eurofins Midland** 

Released to Imaging: 11/29/2023 3:17:41 PM

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28854-1

SDG: Lea County, New Mexico

Prep Batch: 54365

Prep Type: Total/NA

12

Prep Type: Total/NA

Prep Batch: 54267

96

mg/Kg

70 - 130

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

Lab Sample ID: 880-28876-A-1-A MS Client Sample ID: Matrix Spike Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 54337

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <0.00201 U 0 101 0.1073 106 70 - 130 o-Xylene mg/Kg

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-28876-A-1-B MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

o-Xylene

**Analysis Batch: 54337** Prep Batch: 54365 Sample Sample Spike MSD MSD RPD RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Limit D Benzene <0.00201 U 0.0996 0.1191 mg/Kg 120 70 - 130 2 35 Toluene <0.00201 U 0.0996 0.09924 mg/Kg 100 70 - 130 35 7 Ethylbenzene <0.00201 U 0.0996 0.09310 mg/Kg 93 70 - 130 11 35 m-Xylene & p-Xylene <0.00402 U 0.199 0.1915 mg/Kg 96 70 - 130 12 35

0.09560

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 99 70 - 130 1,4-Difluorobenzene (Surr) 110 70 - 130

<0.00201

U

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

Lab Sample ID: MB 880-54267/1-A Client Sample ID: Method Blank

0.0996

Matrix: Solid

Analysis Batch: 54316

MB MB Result Qualifier RL MDL Unit Dil Fac Analyte D Prepared Analyzed 50.0 Gasoline Range Organics <50.0 U mg/Kg 05/26/23 15:58 05/27/23 09:06 (GRO)-C6-C10 50.0 Diesel Range Organics (Over <50.0 U mg/Kg 05/26/23 15:58 05/27/23 09:06 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 05/26/23 15:58 05/27/23 09:06

MB MB %Recovery Qualifier Dil Fac Surrogate I imits Prepared Analyzed 1-Chlorooctane 203 S1+ 70 - 130 05/26/23 15:58 05/27/23 09:06 o-Terphenyl 223 S1+ 70 - 130 05/26/23 15:58 05/27/23 09:06

Lab Sample ID: LCS 880-54267/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 54316

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 817 4 mg/Kg 82 70 130 (GRO)-C6-C10 1000 831.8 83 70 - 130 Diesel Range Organics (Over mg/Kg C10-C28)

**Eurofins Midland** 

Prep Batch: 54267

35

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23) SDG: Lea County, New Mexico

Job ID: 880-28854-1

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

LCS LCS

Lab Sample ID: LCS 880-54267/2-A

**Matrix: Solid** 

Analysis Batch: 54316

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 54267

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 84 70 - 130 o-Terphenyl 91 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54267

Lab Sample ID: LCSD 880-54267/3-A **Matrix: Solid** 

Analysis Batch: 54316

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 839.2 84 70 - 1303 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1005 100 mg/Kg 70 - 13019 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 100 106 70 - 130 o-Terphenyl

Lab Sample ID: 880-28851-A-21-D MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

**Analysis Batch: 54316** 

Prep Type: Total/NA

Prep Batch: 54267

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U 999 817.9 mg/Kg 80 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 999 893.8 mg/Kg 89 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 98 70 - 130 o-Terphenyl 90

Lab Sample ID: 880-28851-A-21-E MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

Analysis Batch: 54316

Prep Type: Total/NA

Prep Batch: 54267

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U 999 81 Gasoline Range Organics <50.0 831.4 mg/Kg 70 - 130 2 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 999 879.5 mg/Kg 88 70 - 130 20

70 - 130

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

MSD MSD %Recovery Qualifier Limits 97 70 - 130

90

Client: Carmona Resources

Job ID: 880-28854-1 Project/Site: Stratocaster 20 Fed 3&4 (4.01.23) SDG: Lea County, New Mexico

Client Sample ID: Matrix Spike Duplicate

**Prep Type: Soluble** 

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-54268/1-A

**Matrix: Solid** 

Analysis Batch: 54393

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

MB MB

Dil Fac MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 05/30/23 09:05

Lab Sample ID: LCS 880-54268/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 54393

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 257.3 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-54268/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 54393

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 256.4 mg/Kg 103 90 - 110

Lab Sample ID: 880-28852-A-1-C MS Client Sample ID: Matrix Spike **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 54393

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits Chloride 40.4 F1 248 259.6 F1 90 - 110 mg/Kg

Lab Sample ID: 880-28852-A-1-D MSD

**Matrix: Solid** 

Analysis Batch: 54393

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 40.4 F1 248 259.3 F1 mg/Kg 88 90 - 110 20

# **QC Association Summary**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28854-1 SDG: Lea County, New Mexico

# **GC VOA**

# Prep Batch: 54099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-54099/5-A	Method Blank	Total/NA	Solid	5035	

# Analysis Batch: 54207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28854-1	H-1 (0-0.5')	Total/NA	Solid	8021B	54263
880-28854-2	H-2 (0-0.5')	Total/NA	Solid	8021B	54263
880-28854-3	H-3 (0-0.5')	Total/NA	Solid	8021B	54263
880-28854-4	H-4 (0-0.5')	Total/NA	Solid	8021B	54263
880-28854-5	H-5 (0-0.5')	Total/NA	Solid	8021B	54263
880-28854-6	H-6 (0-0.5')	Total/NA	Solid	8021B	54263
MB 880-54099/5-A	Method Blank	Total/NA	Solid	8021B	54099
MB 880-54263/5-A	Method Blank	Total/NA	Solid	8021B	54263
LCS 880-54263/1-A	Lab Control Sample	Total/NA	Solid	8021B	54263
LCSD 880-54263/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54263
880-28743-A-5-D MS	Matrix Spike	Total/NA	Solid	8021B	54263
880-28743-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	54263

## Prep Batch: 54263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28854-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-28854-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-28854-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-28854-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-28854-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-28854-6	H-6 (0-0.5')	Total/NA	Solid	5035	
MB 880-54263/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54263/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54263/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-28743-A-5-D MS	Matrix Spike	Total/NA	Solid	5035	
880-28743-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

### **Analysis Batch: 54337**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-54365/5-A	Method Blank	Total/NA	Solid	8021B	54365
LCS 880-54365/1-A	Lab Control Sample	Total/NA	Solid	8021B	54365
LCSD 880-54365/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54365
880-28876-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	54365
880-28876-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	54365

# Prep Batch: 54365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-54365/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54365/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54365/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-28876-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-28876-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

# Analysis Batch: 54406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28854-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28854-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	

# **QC Association Summary**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28854-1 SDG: Lea County, New Mexico

**GC VOA (Continued)** 

# Analysis Batch: 54406 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28854-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28854-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28854-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28854-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	

# **GC Semi VOA**

## Prep Batch: 54267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28854-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28854-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28854-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28854-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28854-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28854-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-54267/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54267/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54267/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28851-A-21-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-28851-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 54316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28854-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	54267
880-28854-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	54267
880-28854-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	54267
880-28854-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	54267
880-28854-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	54267
880-28854-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	54267
MB 880-54267/1-A	Method Blank	Total/NA	Solid	8015B NM	54267
LCS 880-54267/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54267
LCSD 880-54267/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54267
880-28851-A-21-D MS	Matrix Spike	Total/NA	Solid	8015B NM	54267
880-28851-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	54267

## Analysis Batch: 54424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-28854-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-28854-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-28854-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-28854-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-28854-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-28854-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	

# HPLC/IC

# Leach Batch: 54268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28854-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-28854-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-28854-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-28854-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	

**Eurofins Midland** 

Page 19 of 27

# **QC Association Summary**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28854-1

SDG: Lea County, New Mexico

# HPLC/IC (Continued)

# Leach Batch: 54268 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28854-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-28854-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-54268/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54268/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54268/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28852-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-28852-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

# Analysis Batch: 54393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28854-1	H-1 (0-0.5')	Soluble	Solid	300.0	54268
880-28854-2	H-2 (0-0.5')	Soluble	Solid	300.0	54268
880-28854-3	H-3 (0-0.5')	Soluble	Solid	300.0	54268
880-28854-4	H-4 (0-0.5')	Soluble	Solid	300.0	54268
880-28854-5	H-5 (0-0.5')	Soluble	Solid	300.0	54268
880-28854-6	H-6 (0-0.5')	Soluble	Solid	300.0	54268
MB 880-54268/1-A	Method Blank	Soluble	Solid	300.0	54268
LCS 880-54268/2-A	Lab Control Sample	Soluble	Solid	300.0	54268
LCSD 880-54268/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54268
880-28852-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	54268
880-28852-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	54268

**Eurofins Midland** 

3

Л

R

9

11

12

4 4

14

## Lab Chronicle

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28854-1 SDG: Lea County, New Mexico

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

Date Collected: 05/23/23 00:00 Date Received: 05/26/23 13:04

Lab Sample ID: 880-28854-1

**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			5.02 g	5 mL	54263	05/26/23 15:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54207	05/27/23 16:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			54406	05/30/23 13:01	AJ	EET MIC
Total/NA	Analysis	8015 NM		1			54424	05/30/23 15:27	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54267	05/26/23 15:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54316	05/27/23 15:47	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54268	05/26/23 16:01	KS	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	54393	05/30/23 10:09	CH	EET MID

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

Date Collected: 05/23/23 00:00

Date Received: 05/26/23 13:04

Lab Sample ID: 880-28854-2

**Matrix: Solid** 

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.03 g 5 mL 54263 05/26/23 15:25 EL EET MID Total/NA 8021B 5 mL **EET MID** Analysis 1 5 mL 54207 05/27/23 16:25 SM Total/NA Total BTEX 54406 05/30/23 13:01 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 54424 05/30/23 15:27 SM **EET MID** Total/NA 54267 Prep 8015NM Prep 10.05 g 10 mL 05/26/23 15:58 ΑJ EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 54316 05/27/23 16:32 SM **EET MID** Soluble Leach DI Leach 5.01 g 50 mL 54268 05/26/23 16:01 KS **EET MID** Soluble Analysis 300.0 50 mL 50 mL 54393 05/30/23 10:25 СН **EET MID** 

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

Date Collected: 05/23/23 00:00

Date Received: 05/26/23 13:04

Lab Sample ID: 880-28854-3

	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	54263	05/26/23 15:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54207	05/27/23 16:45	SM	EET MID
Total/NA	Analysis	Total BTEX		1			54406	05/30/23 13:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54424	05/30/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	54267	05/26/23 15:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54316	05/27/23 16:55	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54268	05/26/23 16:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54393	05/30/23 10:30	CH	EET MID

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

Date Collected: 05/23/23 00:00

Date Received: 05/26/23 13:04

Lab Sample ID:	880-28854-4
	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	54263	05/26/23 15:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54207	05/27/23 17:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			54406	05/30/23 13:01	AJ	EET MID

**Eurofins Midland** 

**Matrix: Solid** 

## Lab Chronicle

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28854-1

SDG: Lea County, New Mexico

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

Date Collected: 05/23/23 00:00 Date Received: 05/26/23 13:04

Lab Sample ID: 880-28854-4

**Matrix: Solid** 

	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			54424	05/30/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54267	05/26/23 15:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54316	05/27/23 17:17	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	54268	05/26/23 16:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54393	05/30/23 10:35	CH	EET MID

Lab Sample ID: 880-28854-5

Lab Sample ID: 880-28854-6

**Matrix: Solid** 

Client Sample ID: H-5 (0-0.5') Date Collected: 05/23/23 00:00 **Matrix: Solid** 

Date Received: 05/26/23 13:04

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab 5035 Total/NA Prep 4.95 g 5 mL 54263 05/26/23 15:25 EL **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 54207 05/27/23 17:26 SM EET MID 1 Total/NA Total BTEX **EET MID** Analysis 1 54406 05/30/23 13:01 ΑJ Total/NA Analysis 8015 NM 54424 05/30/23 15:27 SM EET MID Total/NA Prep 8015NM Prep 10.03 g 10 mL 54267 05/26/23 15:58 AJ **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 54316 05/27/23 17:40 SM **EET MID** Soluble Leach DI Leach 4.99 g 50 mL 54268 05/26/23 16:01 KS EET MID Soluble Analysis 300.0 1 50 mL 50 mL 54393 05/30/23 10:41 СН **EET MID** 

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

Date Collected: 05/23/23 00:00

Date Received: 05/26/23 13:04

	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	54263	05/26/23 15:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54207	05/27/23 17:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			54406	05/30/23 13:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54424	05/30/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54267	05/26/23 15:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54316	05/27/23 18:03	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54268	05/26/23 16:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54393	05/30/23 10:46	CH	EET MID

**Laboratory References:** 

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

# **Accreditation/Certification Summary**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28854-1

SDG: Lea County, New Mexico

# **Laboratory: Eurofins Midland**

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

Authority	Pr	ogram	Identification Number	Expiration Date			
Texas	NE	ELAP	T104704400-22-25	06-30-23			
The following analytes the agency does not of	· '	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo			
Analysis Method	D M () 1	N.A Andre					
Alialysis Melliou	Prep Method	Matrix	Analyte				
8015 NM	Ргер Метпоа	Solid	Analyte Total TPH				

# **Method Summary**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28854-1

SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B 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
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

# **Sample Summary**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (4.01.23)

Job ID: 880-28854-1

SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Client Sample ID Matrix				
880-28854-1	H-1 (0-0.5')	Solid	05/23/23 00:00	05/26/23 13:04		
880-28854-2	H-2 (0-0.5')	Solid	05/23/23 00:00	05/26/23 13:04		
880-28854-3	H-3 (0-0.5')	Solid	05/23/23 00:00	05/26/23 13:04		
880-28854-4	H-4 (0-0.5')	Solid	05/23/23 00:00	05/26/23 13:04		
880-28854-5	H-5 (0-0.5')	Solid	05/23/23 00:00	05/26/23 13:04		
880-28854-6	H-6 (0-0.5')	Solid	05/23/23 00:00	05/26/23 13:04		

4

7

8

10

11

10

14

		Relinquished by: (Signature)			Comments Email to Mike Carmona / Mcarmona@carmonaresources com and Conner Moehring / Cmoehring@carmonaresources com					H-6 (0-0 5') 5/23/2023	H-5 (0-0 5') 5/23/2023	H-4 (0-0 5') 5/23/2023	H-3 (0-0 5') 5/23/2023	H-2 (0-0 5') 5/23/2023	H-1 (0-0 5') 5/23/2023	Sample Identification Date Time	i vai vuitailieis	Seals res No GUA	100 (10)	3 3	Vac No	SAMPLE RECEIPT Temp Blank Yes (No.)			Project Location Lea County New Mexico	Project Number 2035	Project Name Stratocaster 20 Fed 3&4 (4 01 23)	Phone 432-813-6823	City, State ZIP Midland, TX 79701	Address 310 W Wall St Ste 500	Company Name Carmona Resources	Project Manager Conner Moehring
		)			aresources com					×	×	×	×	×	×	Soll	mperature	Reading	CIO	10	***************************************	-			Due Date	Routine	Turn	Email				
					n and Conner Mu					G	G	G	G	ဝ	ഒ	Water Comp		1	ノジン			<b>S</b> S ≥ 1			72 Hrs	✓ Rush	Turn Around	mcarmona@carmonaresources com	City, State ZIP	Address	Company Name	Bill to (if different)
Ī	5/26				Surue							-1	_	_		Cont			F	Para	me	ter	s	1		Code		monare				
	6 - 1	Date/Time			/ Cmoeh					×	×	×	×	×	×					X 80								sources				Carmon
	1,00/2	ъe			ring@ca				-	×	×	×	×	×	×		PH 80			ide :			+ M)	(O)				com				Carmona Resources
	7		)		irmonar																											es
	X				esource		_						-		-		·										AN/					
					Scom											.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							·				YLYSIS I					
	Q	Receive												1													ANALYSIS REQUEST			St	무	
		ed by (Si						-  -	Ц		-			-		· · · · ·									1		\$ <b>7</b>	Deliverables EDD	porting L	State of Project:	ogram: ر	
		gnature)					_	880-28854 Chain of Custody					1	_														s EDD	Reporting Level II Level III LST/UST	oject:	Program: UST/PST PRP Irownfields	
							<u>_</u>	4 Chain						$\dashv$	-							-							Level III	[	PRP	Work O
								of Custo				1		1			Ιz	2	z	z			<b>.</b>	Γ <u>ς</u>	,	z	_	ADaPT 🗆	□st/us	1	rownfie	rder Co
								dv								Sam	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	H <sub>3</sub> PO <sub>4</sub> HP	112004 F12		ביס ביס פו		None NO	Pres		ST RRP		lds RRC	Work Order Comments
		Date				1						Tetrangel				Sample Comments	orbic Aci	+NaOH :	laSO <sub>3</sub>	IABIS				: 5	: 5	2	Preservative Codes	Other:			റ്	
		Date/Time				1	1				,					ıment	d SAP	Ž				NaOH Na	NEON EN	MECH ME	or vealer 120	Water	Code		Level IV	1	perfund	

Work Order No: 28854

5/31/2023

Released to Imaging: 11/29/2023 3:17:41 PM

2

3

5

7

9

11

13

# **Login Sample Receipt Checklist**

Client: Carmona Resources

Job Number: 880-28854-1

SDG Number: Lea County, New Mexico

....

Login Number: 28854
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 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	

.



August 02, 2023

CONNER MOEHRING
CARMONA RESOURCES
310 W WALL ST SUITE 415
MIDLAND, TX 79701

RE: STRATOCASTER 20 FED 3 & 4 (4.01.23)

Enclosed are the results of analyses for samples received by the laboratory on 08/01/23 11:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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 CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/01/2023 Reported: 08/02/2023

08/02/2023 STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Name: STRA Project Number: 2035

Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: CS - 1 (1') (H234041-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	08/02/2023	ND	1.93	96.3	2.00	0.918	
Ethylbenzene*	<0.050	0.050	08/02/2023	ND	1.98	99.2	2.00	0.773	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.03	101	6.00	0.992	
Total BTEX	<0.300	0.300	08/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	<16.0	16.0	08/02/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	139	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	155	% 49.1-14	8						

Analyzed By MC

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 CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/01/2023 Reported: 08/02/2023

STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Name: STRA Project Number: 2035

Project Location: LEA COUNTY, NEW MEXICO

ma/ka

Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: CS - 2 (1') (H234041-02)

RTFY 8021R

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	08/02/2023	ND	1.93	96.3	2.00	0.918	
Ethylbenzene*	<0.050	0.050	08/02/2023	ND	1.98	99.2	2.00	0.773	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.03	101	6.00	0.992	
Total BTEX	<0.300	0.300	08/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 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	<16.0	16.0	08/02/2023	ND	432	108	400	0.00	
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	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

Applyzod By: MC

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. Keine



### Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701

Fax To:

Received: 08/01/2023 Reported: 08/02/2023 Sampling Date: 07/31/2023 Sampling Type: Soil

Project Name:

RTFY 8021R

STRATOCASTER 20 FED 3 & 4 (4.01.23)

Sampling Condition: Cool & Intact

Project Number: 2035 Sample Received By: Tamara Oldaker

Project Location: LEA COUNTY, NEW MEXICO

ma/ka

### Sample ID: CS - 3 (1') (H234041-03)

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	08/02/2023	ND	1.93	96.3	2.00	0.918	
Ethylbenzene*	<0.050	0.050	08/02/2023	ND	1.98	99.2	2.00	0.773	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.03	101	6.00	0.992	
Total BTEX	<0.300	0.300	08/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/02/2023	ND	432	108	400	0.00	
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	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

Applyzod By: MC

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 whatsoever 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 CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701

Fax To:

Received: 08/01/2023 Reported: 08/02/2023

STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Number: 2035

Project Location: LEA COUNTY, NEW MEXICO

ma/ka

Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

## Sample ID: CS - 4 (1') (H234041-04)

Project Name:

RTFY 8021R

Analyte	Result	Reporting Limit							
		Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	08/02/2023	ND	1.93	96.3	2.00	0.918	
Ethylbenzene*	<0.050	0.050	08/02/2023	ND	1.98	99.2	2.00	0.773	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.03	101	6.00	0.992	
Total BTEX	<0.300	0.300	08/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	<16.0	16.0	08/02/2023	ND	432	108	400	0.00	
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	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

Applyzod By: MC

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 whatsoever 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 CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/01/2023 Reported: 08/02/2023

STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Name: STRA Project Number: 2035

Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: CS - 5 (1') (H234041-05)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	08/02/2023	ND	1.93	96.3	2.00	0.918	
Ethylbenzene*	<0.050	0.050	08/02/2023	ND	1.98	99.2	2.00	0.773	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.03	101	6.00	0.992	
Total BTEX	<0.300	0.300	08/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	<16.0	16.0	08/02/2023	ND	432	108	400	0.00	
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	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

## 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/01/2023 Reported: 08/02/2023

08/02/2023 STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Name: STRA Project Number: 2035

Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: CS - 6 (1') (H234041-06)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	08/02/2023	ND	1.93	96.3	2.00	0.918	
Ethylbenzene*	<0.050	0.050	08/02/2023	ND	1.98	99.2	2.00	0.773	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.03	101	6.00	0.992	
Total BTEX	<0.300	0.300	08/02/2023	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	32.0	16.0	08/02/2023	ND	432	108	400	0.00	
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	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	85.3	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	75.6	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	18						

#### 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. Kreine



### Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/01/2023 Reported: 08/02/2023

STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Number: 2035

Project Location: LEA COUNTY, NEW MEXICO Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

## Sample ID: CS - 7 (1') (H234041-07)

Project Name:

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	08/02/2023	ND	1.93	96.3	2.00	0.918	
Ethylbenzene*	<0.050	0.050	08/02/2023	ND	1.98	99.2	2.00	0.773	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.03	101	6.00	0.992	
Total BTEX	<0.300	0.300	08/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/02/2023	ND	432	108	400	0.00	
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	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	6 49.1-14	8						

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 whatsoever 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 CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/01/2023 Reported: 08/02/2023

08/02/2023 STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Number: 2035

Project Location: LEA COUNTY, NEW MEXICO

ma/ka

Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: CS - 8 (1') (H234041-08)

Project Name:

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	08/02/2023	ND	1.93	96.3	2.00	0.918	
Ethylbenzene*	<0.050	0.050	08/02/2023	ND	1.98	99.2	2.00	0.773	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.03	101	6.00	0.992	
Total BTEX	<0.300	0.300	08/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	<16.0	16.0	08/02/2023	ND	432	108	400	0.00	
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	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

Applyzod By: MC

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. Keine



### Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/01/2023 Reported: 08/02/2023

STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Number: 2035

Project Location: LEA COUNTY, NEW MEXICO Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: CS - 9 (1') (H234041-09)

Project Name:

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	08/02/2023	ND	1.93	96.3	2.00	0.918	
Ethylbenzene*	<0.050	0.050	08/02/2023	ND	1.98	99.2	2.00	0.773	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.03	101	6.00	0.992	
Total BTEX	<0.300	0.300	08/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/02/2023	ND	432	108	400	0.00	
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	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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 whatsoever 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 CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/01/2023 Reported: 08/02/2023

08/02/2023 STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Name: STRA Project Number: 2035

Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: CS - 10 (1') (H234041-10)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	08/02/2023	ND	1.93	96.3	2.00	0.918	
Ethylbenzene*	<0.050	0.050	08/02/2023	ND	1.98	99.2	2.00	0.773	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.03	101	6.00	0.992	
Total BTEX	<0.300	0.300	08/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	<16.0	16.0	08/02/2023	ND	432	108	400	0.00	
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	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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.

Celeg & Freene



### Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/01/2023 Reported: 08/02/2023

STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Number: 2035

Project Name:

Project Location: LEA COUNTY, NEW MEXICO Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: CS - 11 (1') (H234041-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	08/02/2023	ND	1.93	96.3	2.00	0.918	
Ethylbenzene*	<0.050	0.050	08/02/2023	ND	1.98	99.2	2.00	0.773	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.03	101	6.00	0.992	
Total BTEX	<0.300	0.300	08/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/02/2023	ND	432	108	400	0.00	
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	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

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 whatsoever 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. Keine



### Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/01/2023 Reported: 08/02/2023

STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Number: 2035

Project Name:

Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: CS - 12 (1') (H234041-12)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	08/02/2023	ND	1.93	96.3	2.00	0.918	
Ethylbenzene*	< 0.050	0.050	08/02/2023	ND	1.98	99.2	2.00	0.773	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.03	101	6.00	0.992	
Total BTEX	<0.300	0.300	08/02/2023	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	<16.0	16.0	08/02/2023	ND	432	108	400	0.00	
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	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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 CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/01/2023 Reported: 08/02/2023

08/02/2023 STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Name: STRA Project Number: 2035

Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: CS - 13 (1') (H234041-13)

BTEX 8021B  Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Reco	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	08/02/2023	ND	1.93	96.3	2.00	0.918	
Ethylbenzene*	<0.050	0.050	08/02/2023	ND	1.98	99.2	2.00	0.773	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.03	101	6.00	0.992	
Total BTEX	<0.300	0.300	08/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/02/2023	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	97.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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 CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/01/2023 Reported: 08/02/2023

STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Name: STRA Project Number: 2035

Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: SW - 1 (1') (H234041-14)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	08/02/2023	ND	1.93	96.3	2.00	0.918	
Ethylbenzene*	<0.050	0.050	08/02/2023	ND	1.98	99.2	2.00	0.773	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.03	101	6.00	0.992	
Total BTEX	<0.300	0.300	08/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/02/2023	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

Applyzod By: MC

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. Keine



### Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/01/2023 Reported: 08/02/2023

08/02/2023 STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Name: STRA Project Number: 2035

Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: SW - 2 (1') (H234041-15)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.17	108	2.00	2.83	
Toluene*	<0.050	0.050	08/02/2023	ND	2.11	106	2.00	3.26	
Ethylbenzene*	< 0.050	0.050	08/02/2023	ND	2.02	101	2.00	3.11	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.07	101	6.00	3.81	
Total BTEX	<0.300	0.300	08/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/02/2023	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	96.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

## 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. Keine



### Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/01/2023 Reported:

08/02/2023 STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Name: Project Number: 2035

Project Location: LEA COUNTY, NEW MEXICO Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

## Sample ID: SW - 3 (1') (H234041-16)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.17	108	2.00	2.83	
Toluene*	<0.050	0.050	08/02/2023	ND	2.11	106	2.00	3.26	
Ethylbenzene*	<0.050	0.050	08/02/2023	ND	2.02	101	2.00	3.11	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.07	101	6.00	3.81	
Total BTEX	<0.300	0.300	08/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 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	<16.0	16.0	08/02/2023	ND	432	108	400	0.00	
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	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	96.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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 whatsoever 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 CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/01/2023 Reported: 08/02/2023

STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Number: 2035

Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: SW - 4 (1') (H234041-17)

Project Name:

RTFY 8021R

B1EX 8021B	mg/	кg	Апануге	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.17	108	2.00	2.83	
Toluene*	<0.050	0.050	08/02/2023	ND	2.11	106	2.00	3.26	
Ethylbenzene*	<0.050	0.050	08/02/2023	ND	2.02	101	2.00	3.11	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.07	101	6.00	3.81	
Total BTEX	<0.300	0.300	08/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 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	<16.0	16.0	08/02/2023	ND	432	108	400	0.00	
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	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122 9	% 49.1-14	8						

Applyzod By: MC

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 CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/01/2023 Reported: 08/02/2023

STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Name: STRA Project Number: 2035

Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: SW - 5 (1') (H234041-18)

RTFY 8021R

Result <0.050 <0.050	Reporting Limit 0.050	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	0.050	00/00/10055			,	True value qe	IN D	Quaiiilei
<0.050		08/02/2023	ND	2.17	108	2.00	2.83	
	0.050	08/02/2023	ND	2.11	106	2.00	3.26	
<0.050	0.050	08/02/2023	ND	2.02	101	2.00	3.11	
<0.150	0.150	08/02/2023	ND	6.07	101	6.00	3.81	
<0.300	0.300	08/02/2023	ND					
98.9	% 71.5-13	4						
mg/	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	08/02/2023	ND	432	108	400	0.00	
mg/	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	08/01/2023	ND	206	103	200	2.11	
<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
<10.0	10.0	08/01/2023	ND					
103 9	% 48.2-13	4						
120 9	% 49.1-14	8						
	<0.150 <0.300  98.9  mg/ Result <16.0  mg/  Result <10.0 <10.0 <10.0	<0.050 0.050 <0.150 0.150 <0.300 0.300  98.9	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Applyzod By: MC

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. Keine



### Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701

Fax To:

Received: 08/01/2023 Reported: 08/02/2023

STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Name: Project Number: 2035

Project Location: LEA COUNTY, NEW MEXICO Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

## Sample ID: SW - 6 (1') (H234041-19)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.17	108	2.00	2.83	
Toluene*	<0.050	0.050	08/02/2023	ND	2.11	106	2.00	3.26	
Ethylbenzene*	<0.050	0.050	08/02/2023	ND	2.02	101	2.00	3.11	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.07	101	6.00	3.81	
Total BTEX	<0.300	0.300	08/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 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	<16.0	16.0	08/02/2023	ND	432	108	400	0.00	
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	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

Applyzod By: MC

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 whatsoever 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 CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/01/2023 Reported: 08/02/2023

08/02/2023 STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Name: STRA Project Number: 2035

Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: SW - 7 (1') (H234041-20)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2023	ND	2.17	108	2.00	2.83	
Toluene*	<0.050	0.050	08/02/2023	ND	2.11	106	2.00	3.26	
Ethylbenzene*	<0.050	0.050	08/02/2023	ND	2.02	101	2.00	3.11	
Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.07	101	6.00	3.81	
Total BTEX	<0.300	0.300	08/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/02/2023	ND	432	108	400	0.00	
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	08/01/2023	ND	206	103	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	222	111	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

Applyzod By: MC

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. Keine



### Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/01/2023 Reported: 08/02/2023

STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Name: STRA Project Number: 2035

Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 07/31/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: SW - 8 (1') (H234041-21)

RTFY 8021R

Result   Reporting Limit   Analyzed   Method Blank   BS   % Recovery   True Value QC   RPD	BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	ea By: MS					
Toluene* < 0.050 0.050 0.8/02/2023 ND 2.11 106 2.00 3.26 Ethylbenzene* < 0.050 0.050 08/02/2023 ND 2.02 101 2.00 3.11 Total Xylenes* < 0.150 0.150 08/02/2023 ND 6.07 101 6.00 3.81 Total BTEX < 0.300 0.300 08/02/2023 ND  Surrogate: 4-Bromofluorobenzene (PID 99.5 % 71.5-134  Chloride, SM4500Cl-B mg/kg Analyzed By: AC  Chloride   Result   Reporting Limit   Analyzed   Method Blank   BS   % Recovery   True Value QC   RPD  Chloride   Chloride   Result   Reporting Limit   Analyzed By: MS  Analyzed By: MS  Analyzed By: MS  Analyzed By: MS  GRO C6-C10*   Chloride   Chloride	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Ethylbenzene* <0.050 0.050 08/02/2023 ND 2.02 101 2.00 3.11 Total Xylenes* <0.150 0.150 08/02/2023 ND 6.07 101 6.00 3.81 Total BTEX <0.300 0.300 08/02/2023 ND  Surrogate: 4-Bromofluorobenzene (PID 99.5 % 71.5-134  Chloride, SM4500Cl-B mg/kg Analyzed By: AC  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride <16.0 16.0 08/02/2023 ND 432 108 400 0.00  TPH 8015M mg/kg Analyzed By: MS  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 08/01/2023 ND 182 91.2 200 6.05 DRO >C10-C28* <10.0 10.0 08/01/2023 ND 196 98.2 200 0.356 EXT DRO >C28-C36 <10.0 10.0 08/01/2023 ND  Surrogate: 1-Chlorooctane 115 % 48.2-134	Benzene*	<0.050	0.050	08/02/2023	ND	2.17	108	2.00	2.83	
Total Xylenes*         <0.150         0.150         08/02/2023         ND         6.07         101         6.00         3.81           Surrogate: 4-Bromofluorobenzene (PID         99.5 %         71.5-134         XIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Toluene*	<0.050	0.050	08/02/2023	ND	2.11	106	2.00	3.26	
Total BTEX         <0.300         0.300         08/02/2023         ND           Surrogate: 4-Bromofluorobenzene (PIL)         99.5 % 71.5-134           Chloride, SM4500CI-B         mg/kg         Analyzed By: AC           Analyte         Result         Reporting Limit         Analyzed By: AC         Recovery         True Value QC         RPD           Chloride         <16.0	Ethylbenzene*	<0.050	0.050	08/02/2023	ND	2.02	101	2.00	3.11	
Surrogate: 4-Bromofluorobenzene (PID         99.5 %         71.5-134           Chloride, SM4500Cl-B         mg/kg         Analyzed By: AC           Analyte         Result Reporting Limit Analyzed Method Blank BS % Recovery         True Value QC RPD           Chloride         <16.0 16.0 08/02/2023 ND 432 108 400 0.00	Total Xylenes*	<0.150	0.150	08/02/2023	ND	6.07	101	6.00	3.81	
Chloride, SM4500Cl-B         mg / kg         Analyzed By: AC           Analyte         Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD           Chloride         <16.0	Total BTEX	<0.300	0.300	08/02/2023	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  Chloride <16.0 16.0 08/02/2023 ND 432 108 400 0.00  TPH 8015M mg/kg Analyzed By: MS  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  GRO C6-C10* <10.0 10.0 08/01/2023 ND 182 91.2 200 6.05  DRO >C10-C28* <10.0 10.0 08/01/2023 ND 196 98.2 200 0.356  EXT DRO >C28-C36 <10.0 10.0 08/01/2023 ND  Surrogate: 1-Chlorooctane 115 % 48.2-134	Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride         <16.0         16.0         08/02/2023         ND         432         108         400         0.00           TPH 8015M         mg/kg         Analyzed By: MS         MS         Recovery         True Value QC         RPD           Analyte         Result         Reporting Limit         Analyzed Method Blank         BS         % Recovery         True Value QC         RPD           GRO C6-C10*         <10.0	Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
TPH 8015M         mg/kg         Analyzed By: MS           Analyte         Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           GRO C6-C10*         <10.0	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  GRO C6-C10* <10.0 10.0 08/01/2023 ND 182 91.2 200 6.05  DRO >C10-C28* <10.0 10.0 08/01/2023 ND 196 98.2 200 0.356  EXT DRO >C28-C36 <10.0 10.0 08/01/2023 ND  Surrogate: 1-Chlorooctane 115 % 48.2-134	Chloride	<16.0	16.0	08/02/2023	ND	432	108	400	0.00	
GRO C6-C10* <10.0 10.0 08/01/2023 ND 182 91.2 200 6.05 DRO >C10-C28* <10.0 10.0 08/01/2023 ND 196 98.2 200 0.356 EXT DRO >C28-C36 <10.0 10.0 08/01/2023 ND  Surrogate: 1-Chlorooctane 115 % 48.2-134	TPH 8015M	mg	/kg	Analyze	ed By: MS					
DRO >C10-C28* < 10.0 10.0 08/01/2023 ND 196 98.2 200 0.356  EXT DRO >C28-C36 <10.0 10.0 08/01/2023 ND  Surrogate: 1-Chlorooctane 115 % 48.2-134	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
EXT DRO >C28-C36 <10.0 10.0 08/01/2023 ND  Surrogate: 1-Chlorooctane 115 % 48.2-134	GRO C6-C10*	<10.0	10.0	08/01/2023	ND	182	91.2	200	6.05	
Surrogate: 1-Chlorooctane 115 % 48.2-134	DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	196	98.2	200	0.356	
	EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctadecane 125 % 49.1-148	Surrogate: 1-Chlorooctane	115	% 48.2-13	4						
	Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

Applyzod By: MC

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. Keine



### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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.

Celeg D. Freene

Project Manager: Company Name: Address: Address: City, State ZIP: Phone: Project Name: Project Name: Project Location Sampler's Name: PO #:	onner Mo armona R 0 W Wal dland, TX 2-813-68 Strato	13&4 (4.01.23) aw Mexico	l lai:	Bill to: (if different Company Nan Address: City, State ZIP mcarmona@ Around @ Rush 24 Hrs	Chain of Custody  Carmona Resources  Carmona Resources  Code  O + MRO)	Carm	Of Custod  Carmona Resources  O+MRO)	sources	ANA	Prog State Repo Deliv	Work Order No: Page  Work Order Comments  Program: UST/PST   PRP     rownfields     Reporting:Level III
Project Number:	2035	Movino	Routine	☑ Rush	Code			H			
Project Location Sampler's Name:	Lea County, Ne	ew Mexico	Due Date:	24 Hrs	_		(0)				
PO#.					s		+ MRC				
SAMPLE RECEIPT	Temp Blank:	Yes MO	Wet ice:	Yes No	eters	В	ORO +	00			
Received Intact:	es N	Thermometer ID:	D:	140	aran	C 8021	RO + I	ide 45			
Sample Custody Seals:	Yes No MA	Temperature Reading:	leading:	141	F	вте	M (G	Chlor			
Total Containers:			perature:	1	Ш		8015				
Sample Identification	ication Date	Time	Soil	Water Comp	p Cont		TPH				
CS-1 (1")		23	×	Comp	p 1	×	×	×			
CS-2 (1)		23	×	Comp	p 1	×	×	×			
CS-3 (1)		23	×	Comp	7	×	×	×			
CS-4 (1)		23	×	Comp	p 1	×	×	×			
CS-5 (1)		23	×	Comp		×	×	×			
	7/31/2023	23	××	Comp	1 7	××	××	××		-	
		23	×	Comp		×	×	×	-		
		23	×	Comp	1	×	×	×		-	
CS 10 /4"	) 7/31/2023	23	×	Comp	-	×	×	×		1	
00-10(1)	omments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com	mona@carmona	resources.com	and Conner N	Noehring	/ Cmoe	hring@	Carmona	resources.	moo	
omments: Email to		Relinquished by: (Signature)					me			Dan	
omments: Email to	Relinquishe	+			1	Date/Time	120		1	Neu	Received by (Signature)

							1					Page 2 of 3
Project Manager:	Conner Moehring	DG			Bill to: (if different)	3	Cam	nona Re	Peninose			2 of
	Carmona Resources	urces			Company Nam	5	Can	III III III	Calificial Nesoulces		Work Ura	ents
	310 W Wall St Ste 500	Ste 500			Address:	ā	+				State of Project:	rownfields RC perfund
City, State ZIP:	Midland, TX 79701	701			City, State ZIP-		1				Ti evel III	
Phone:	432-813-6823			Email:		carmonar	esourc	es.com				ADaPT Other
Project Name:	Stratocaste	Stratocaster 20 Fed 3&4 (4.01.23)	4 (4.01.23)	Turn	Turn Around					ANALYSIS DEC		- 11
Project Number:		2035		□ Routine	☑ Rush	Pres.			_	NEW CIGO NEW CES	- Constitution	ervati
Project Location	Lea Co	Lea County, New Mexico	Mexico	Due Date:	24 Hrs				-			
Sampler's Name:		FV						MRO)				HCL: HC HNO3: HN
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice	NO NO	eters	3	RO+	0			H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub> NaOH: Na
Received Intact:	Yes	No	Thermometer ID:		(m)	rame	021	) + D	450			H <sub>3</sub> PO <sub>4</sub> : HP
Cooler Custody Seals:	Yes N	No (NIA)	Correction Factor:	л	1	Pa	EX 8	GRO	oride			Na S O : Na SO
Sample Custody Seals:	Yes	No ONIA	Temperature Reading:	ading:	-4,6		B1	5M (	Chi			Zn Acetate+NaOH: Zn
Total Containers:	-		Corrected Temperature:	erature:	)			H 801				NaOH+Ascorbic Acid: SAPC
Sample Identification	fication	Date	Time	Soil	Water Comp	p Cont		TP				Sample Comments
	3	7/31/2023		×	Comp	p 1	×	×	×			
CS-12 (1')	3	7/31/2023		×	Comp	p 1	×	×	×			
	3	7/31/2023		×	Comp	p 1	×	×	×			
SW-1 (1')	9	7/31/2023		×	Comp	p 1	×	×	×			
SW-2 (1")	٥	7/31/2023		×	Comp	p 1	×	×	×			
SW-3 (1')	3	7/31/2023		×	Comp	p 1	×	×	×			
SW-4 (1')	J	7/31/2023		×	Comp	p 1	×	×	×			
SW-5 (1")	3	7/31/2023		×	Comp	p 1	×	×	×			
	3	7/31/2023		×	Comp	1	×	×	×			
SW-7 (1")	_	7/31/2023		×	Comp	0 1	×	×	×			
omments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com 8/15/2020 9:	Mike Carmon	a / Mcarmo	na@carmonare	sources.com	and Conner N	Noehring	/ Cmo	ehring	@carmor	naresources.com		
5	Re	linquished by	Relinquished by: (Signature)				Date/Time	ime		Rece	Received by: (Signature)	Date/Time
de de	Col	4				82	123	11	100	MANUAL		
ein							-					

Relinquished by: (Signature)  Relinquished by: (Signature)  Relinquished by: (Signature)  Relinquished by: (Signature)  Relinquished by: (Signature)	8:58:58 AM	SW-8 (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:	City, State ZIP:	Address:	Company Name:	Project Manager:	Po
to Mike Carm		8 (1')	entification		als: Yes	Yes					Lea		Stratocas	432-813-6823	Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources	Conner Moehring	
ona / Mcarmo		7/31/2023	Date	11	No NIA	No (NA)	Yes No	Temp Blank:		FV	Lea County, New Mexico	2035	Stratocaster 20 Fed 3&4 (4.01.23)		9701	St Ste 500	sources	nring	
na@carmonar			Time	Corrected Temperature	Temperature Reading:	Correction Factor.	Thermometer ID:	Yes No		Conco	Mexico		4 (4.01.23)						
esources.com		×	Soil	erature:	ading:	эт. -	,,	Wet Ice:		Due Date.	Due Date:	□ Routine	Turr	Email					
and Conne		Cc	Water Co		-4.6	1	140	Xes No		SILL 47	24 Hre	☑ Rush	Turn Around	Email: mcarmona@carmonaresources.com	City, State ZIP	Address:	Company Name:	Bill to: (if different)	
r Moehring			Grab/ # of	1		Pa	_	eter	5	1	-	Pres.		@carmona	P		me:	ent)	
Date/Tin		×			_	EX 8	_	_				-		resources				Carmo	
hring@ca		×	TPI	H 801		GRO			MR	0)	+	-		.com				Carmona Resources	
rmonare																		ces	
Sources.		+							_	_	+	-	ANA						
											1		ANALYSIS REQUEST						
Received by: (Signature)												3000	TOUEST	Deliverables: EDD	Reporting:Level II Level III	State of Project:	Program: UST/PST DRP		
		+															DRP	Work O	
			Sam	NaOH+As	Zn Acetate	Na-S-O- NaSO-	NaHSO : N	H DO - HE	HCL: HC	Cool: Cool	None: NO	Fre	Pos		□ST/UST □		rownfields	Page	
Date/Time			Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	NaSO.	NADIC	NaOH: Na		MeOH: Me	DI Water: H <sub>2</sub> O	servati		.7	RRP Level IV	The Indian	5	3 of	



August 03, 2023

CONNER MOEHRING
CARMONA RESOURCES
310 W WALL ST SUITE 415
MIDLAND, TX 79701

RE: STRATOCASTER 20 FED 3 & 4 (4.01.23)

Enclosed are the results of analyses for samples received by the laboratory on 08/02/23 12:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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 CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 08/02/2023 Reported:

08/03/2023

STRATOCASTER 20 FED 3 & 4 (4.01.23)

Project Number: 2035

Project Name:

Project Location: LEA COUNTY, NEW MEXICO Sampling Date: 08/02/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

## Sample ID: CS - 6 (1.25') (H234078-01)

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	08/03/2023	ND	1.98	99.2	2.00	0.642	
Toluene*	<0.050	0.050	08/03/2023	ND	1.90	95.2	2.00	0.971	
Ethylbenzene*	<0.050	0.050	08/03/2023	ND	1.95	97.6	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/03/2023	ND	5.76	95.9	6.00	0.697	
Total BTEX	<0.300	0.300	08/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/03/2023	ND	432	108	400	3.64	
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	08/03/2023	ND	189	94.4	200	3.11	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	207	103	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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 whatsoever 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



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

ct Manager: Conner Moehring						
		Dill to				Page 1 of 1
		DIII IO. (if different)		Carmona Resources	Work Order	
		Company Name:	98		Program: UST/PST   PRP   frownfields	Date
State ZIP: Midland, TX 79701		Address:			State of Project:	
432-813-6823		Email: mcarmona@c			Reporting:Level II Level III DS	ST/UST RRP Level IV
ct Name: Stratocaster 20 Fed 3&4 (4 01 22)		mearmona@calmonaresources.com	ai ii) ui laresources.co	in the second se	Deliverables: EDD ADal	ADaPT Other:
ä	Routing	urn A	Pres	ANALYSIS RE	SIS REQUEST	Procenting
Lea Cour	2		Code			1000
	Due Dale	24 Hrs	RO)			Cool: Cool MeOH: Me
Yes No	mometer ID:	CX		500		H BO H NaOH: Na
A	Correction Factor	140	X 80	ide 4		NaHSO : NABIS
Seals: Yes No (NA)	Temperature Reading:	00	BTE	hlori		Na-S-O-: NaSO-
	Corrected Temperature:	15	_	C		Zn Acetate+NaOH; Zn
ition Date	Time Soil	Water Grab/	TPH S			NaOH+Ascorbic Acid: SAPC
CS-6 (1.25) 8.2.23	×	0		×		Sample Comments
s: Email to Mike Carmona / Mcarmona@ca						
Conner Moehring / Concerting / Conserting /	armonaresources.c	om and Conner Mo	ehring / Cmoehring	@carmonaresources.com		
Relinquished by: (Signature)	nature)		Date/Time			
7		20	6772 1720	// Monor	received by Joignature)	Date/Time

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

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

Generated 8/7/2023 2:45:44 PM

# **JOB DESCRIPTION**

Stratocaster 20 Fed 3&4 (04.01.23) SDG NUMBER Lea County New Mexico

# **JOB NUMBER**

880-31663-1

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 8/7/2023 2:45:44 PM

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

3

4

**O** 

7

Ŏ

10

11

12

14

Client: Carmona Resources Project/Site: Stratocaster 20 Fed 3&4 (04.01.23) Laboratory Job ID: 880-31663-1 SDG: Lea County New Mexico

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Racaint Chacklists	20

2

3

6

8

9

11

10

14

# **Definitions/Glossary**

Client: Carmona Resources

Job ID: 880-31663-1 Project/Site: Stratocaster 20 Fed 3&4 (04.01.23)

SDG: Lea County New Mexico

**Qualifiers** 

**GC VOA** 

Qualifier **Qualifier Description** 

LCS and/or LCSD is outside acceptance limits, high biased. U Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier **Qualifier Description** 

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

**HPLC/IC** 

Qualifier **Qualifier Description** 

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

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 Toxicity Equivalent Quotient (Dioxin) TEQ

**TNTC** Too Numerous To Count

### Case Narrative

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (04.01.23)

Job ID: 880-31663-1

SDG: Lea County New Mexico

Job ID: 880-31663-1

**Laboratory: Eurofins Midland** 

Narrative

Job Narrative 880-31663-1

#### Receipt

The samples were received on 8/3/2023 4:09 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.6°C

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-31663-1) and H-2 (0-0.5') (880-31663-2).

#### GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-31650-A-1-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-59298 and analytical batch 880-59294 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

#### GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-59354 and analytical batch 880-59405 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-59405/47). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: H-2 (0-0.5') (880-31663-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

#### HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-59261 and analytical batch 880-59272 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.

**Eurofins Midland** 8/7/2023

Job ID: 880-31663-1

# **Client Sample Results**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (04.01.23) SDG: Lea County New Mexico

Lab Sample ID: 880-31663-1

**Client Sample ID: H-1 (0-0.5')** Date Collected: 08/03/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		08/04/23 08:27	08/04/23 14:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:27	08/04/23 14:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:27	08/04/23 14:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/04/23 08:27	08/04/23 14:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:27	08/04/23 14:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/04/23 08:27	08/04/23 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				08/04/23 08:27	08/04/23 14:28	1
1,4-Difluorobenzene (Surr)	82		70 - 130				08/04/23 08:27	08/04/23 14:28	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/04/23 18:19	1

Method: SW846 8015 NM - Die	sel Range Organics (DRO) (GC)
	D 11 0 110

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			08/07/23 15:23	1

			( /					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.6	U	49.6	mg/Kg		08/04/23 15:42	08/07/23 05:34	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.6	U	49.6	mg/Kg		08/04/23 15:42	08/07/23 05:34	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		08/04/23 15:42	08/07/23 05:34	1
Currogato	% Pocovory	Qualifier	Limite			Propared	Analyzod	Dil Esc

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	08/04/23 15:42	08/07/23 05:34	1
o-Terphenyl	123		70 - 130	08/04/23 15:42	08/07/23 05:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.5 F1	5.04	mg/Kg			08/04/23 00:43	1

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

Lab Sample ID: 880-31663-2 Date Collected: 08/03/23 00:00 **Matrix: Solid** Date Received: 08/03/23 16:09

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		08/04/23 08:27	08/04/23 14:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:27	08/04/23 14:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:27	08/04/23 14:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/04/23 08:27	08/04/23 14:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:27	08/04/23 14:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/04/23 08:27	08/04/23 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				08/04/23 08:27	08/04/23 14:49	1
1,4-Difluorobenzene (Surr)	104		70 - 130				08/04/23 08:27	08/04/23 14:49	1

# **Client Sample Results**

Client: Carmona Resources

Job ID: 880-31663-1 Project/Site: Stratocaster 20 Fed 3&4 (04.01.23) SDG: Lea County New Mexico

Lab Sample ID: 880-31663-2

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

Date Collected: 08/03/23 00:00 Matrix: Solid

Date Received: 08/03/23 16:09

Method: TAL SOP Total BTEX - T Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399		0.00399	WIDE	mg/Kg	=	Trepareu	08/04/23 18:19	1
Mothod: SW946 9045 NM Dioce	l Banga Organ	ica (DBO) (	20)						
Method: SW846 8015 NM - Diese Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	79.3	quamer	49.5	INIDE	mg/Kg		Tropulcu	08/07/23 15:23	
Mothod: SW046 9045D NM Dies	ol Bongo Orgo	nice (DBO)	(CC)						
Method: SW846 8015B NM - Dies Analyte	•	Qualifier	(GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.5	U	49.5		mg/Kg		08/04/23 15:42	08/07/23 05:55	1
(GRO)-C6-C10									
Diesel Range Organics (Over	79.3		49.5		mg/Kg		08/04/23 15:42	08/07/23 05:55	,
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		08/04/23 15:42	08/07/23 05:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130				08/04/23 15:42	08/07/23 05:55	1
o-Terphenyl	151	S1+	70 - 130				08/04/23 15:42	08/07/23 05:55	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	• .	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.3		4.95		mg/Kg			08/04/23 00:58	

# **Surrogate Summary**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (04.01.23)

Job ID: 880-31663-1

SDG: Lea County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-31650-A-1-A MS	Matrix Spike	112	121
880-31650-A-1-B MSD	Matrix Spike Duplicate	109	120
880-31663-1	H-1 (0-0.5')	88	82
880-31663-2	H-2 (0-0.5')	86	104
LCS 880-59298/1-A	Lab Control Sample	104	116
LCSD 880-59298/2-A	Lab Control Sample Dup	114	113
MB 880-59298/5-A	Method Blank	72	95

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

=			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-31663-1	H-1 (0-0.5')	123	123
880-31663-2	H-2 (0-0.5')	151 S1+	151 S1+
880-31672-A-1-D MS	Matrix Spike	107	104
880-31672-A-1-E MSD	Matrix Spike Duplicate	107	105
LCS 880-59354/2-A	Lab Control Sample	101	115
LCSD 880-59354/3-A	Lab Control Sample Dup	104	117
MB 880-59354/1-A	Method Blank	121	134 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

# **QC Sample Results**

Client: Carmona Resources

Job ID: 880-31663-1 Project/Site: Stratocaster 20 Fed 3&4 (04.01.23) SDG: Lea County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-59298/5-A

Lab Sample ID: LCS 880-59298/1-A

Analysis Batch: 59294

**Matrix: Solid** 

Matrix: Solid

Analysis Batch: 59294

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59298

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:27	08/04/23 12:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:27	08/04/23 12:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:27	08/04/23 12:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/04/23 08:27	08/04/23 12:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:27	08/04/23 12:44	1
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		08/04/23 08:27	08/04/23 12:44	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72	70 - 130	08/04/23 08:27	08/04/23 12:44	1
1,4-Difluorobenzene (Surr)	95	70 - 130	08/04/23 08:27	08/04/23 12:44	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59298

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1358 mg/Kg 136 70 - 130 Toluene 0.100 0.1145 mg/Kg 115 70 - 130 0.100 Ethylbenzene 0.1169 mg/Kg 117 70 - 130 0.200 0.2504 125 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.1192 70 - 130 o-Xylene mg/Kg 119

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	116	70 - 130

Lab Sample ID: LCSD 880-59298/2-A **Client Sample ID: Lab Control Sample Dup** 

**Matrix: Solid** 

Analysis Batch: 59294

Prep Type: Total/NA Prep Batch: 59298

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1462	*+	mg/Kg		146	70 - 130	7	35	
Toluene	0.100	0.1242		mg/Kg		124	70 - 130	8	35	
Ethylbenzene	0.100	0.1300		mg/Kg		130	70 - 130	11	35	
m-Xylene & p-Xylene	0.200	0.2605		mg/Kg		130	70 - 130	4	35	
o-Xylene	0.100	0.1304		mg/Kg		130	70 - 130	9	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1.4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-31650-A-1-A MS

**Matrix: Solid** 

Analysis Batch: 59294

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

Prep Batch: 59298

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U *+	0.101	0.1171		mg/Kg		116	70 - 130	
Toluene	< 0.00199	U	0.101	0.09609		mg/Kg		95	70 - 130	

**Eurofins Midland** 

Page 9 of 20

# **QC Sample Results**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (04.01.23)

Job ID: 880-31663-1

SDG: Lea County New Mexico

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

Lab Sample ID: 880-31650-A-1-A MS

Lab Sample ID: 880-31650-A-1-B MSD

**Matrix: Solid** 

Analysis Batch: 59294

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 59298

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.101	0.09887		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2048		mg/Kg		102	70 - 130	
o-Xylene	<0.00199	U	0.101	0.09636		mg/Kg		96	70 - 130	

MS MS

Surrogate	%Recovery Q	ualifier	Limits		
4-Bromofluorobenzene (Surr)	112		70 - 130		
1,4-Difluorobenzene (Surr)	121		70 - 130		

**Client Sample ID: Matrix Spike Duplicate** 

Prep Type: Total/NA

Prep Batch: 59298

**Matrix: Solid Analysis Batch: 59294** 

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U *+	0.0994	0.1162		mg/Kg		117	70 - 130	1	35
Toluene	<0.00199	U	0.0994	0.1036		mg/Kg		104	70 - 130	7	35
Ethylbenzene	<0.00199	U	0.0994	0.1012		mg/Kg		102	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2138		mg/Kg		108	70 - 130	4	35
o-Xylene	<0.00199	U	0.0994	0.1017		mg/Kg		102	70 - 130	5	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

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

Lab Sample ID: MB 880-59354/1-A

**Matrix: Solid** 

Analysis Batch: 59405

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

Prep Batch: 59354

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/04/23 15:41	08/06/23 20:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/04/23 15:41	08/06/23 20:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/04/23 15:41	08/06/23 20:54	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	08/04/23 15:41	08/06/23 20:54	1
o-Terphenyl	134	S1+	70 - 130	08/04/23 15:41	08/06/23 20:54	1

Lab Sample ID: LCS 880-59354/2-A

**Matrix: Solid** 

**Analysis Batch: 59405** 

Client Sample ID: Lab Control Sample	•
Prep Type: Total/NA	١.

Prep Batch: 59354

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1152		mg/Kg		115	70 - 130	 _
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	926.5		mg/Kg		93	70 - 130	
C10-C28)								

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (04.01.23)

Job ID: 880-31663-1

SDG: Lea County New Mexico

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

Lab Sample ID: LCS 880-59354/2-A

**Matrix: Solid** 

Analysis Batch: 59405

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59354

LCS LCS

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 101 70 - 130 o-Terphenyl 115 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59354

Lab Sample ID: LCSD 880-59354/3-A **Matrix: Solid** Analysis Batch: 59405

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1161 116 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 938.6 94 mg/Kg 70 - 13020

C10-C28)

**Matrix: Solid** 

**Analysis Batch: 59405** 

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	117		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 59354

Sample Sample Spike Analyte Result Qualifier hahhA Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.1 U 993 879.2 mg/Kg 86 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.1 U 993 1007 mg/Kg 97 70 - 130

70 - 130

MS MS

C10-C28)

o-Terphenyl

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 107

Lab Sample ID: 880-31672-A-1-E MSD

Lab Sample ID: 880-31672-A-1-D MS

**Matrix: Solid** 

Analysis Batch: 59405

Client Sample ID: Matrix Spike Duplicate

%Rec

Prep Type: Total/NA

Prep Batch: 59354

Sample Sample MSD MSD RPD Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit U 993 864.8 85 Gasoline Range Organics <50.1 mg/Kg 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.1 U 993 1010 mg/Kg 97 70 - 130 20

C10-C28)

MSD MSD

104

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	107	70 - 130
o-Terphenyl	105	70 - 130

# QC Sample Results

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (04.01.23)

Job ID: 880-31663-1 SDG: Lea County New Mexico

Client Sample ID: Method Blank

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

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59261/1-A

**Matrix: Solid** 

Analysis Batch: 59272

MB MB

MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 08/03/23 23:19

Lab Sample ID: LCS 880-59261/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 59272** 

Spike LCS LCS %Rec Added Qualifier %Rec Analyte Result Unit D Limits Chloride 250 237.3 mg/Kg 95 90 - 110

Lab Sample ID: LCSD 880-59261/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 59272

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 242.4 mg/Kg 90 - 110

Lab Sample ID: 880-31663-1 MS Client Sample ID: H-1 (0-0.5') **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 59272

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 54.5 F1 252 277.3 F1 90 - 110 mg/Kg

Lab Sample ID: 880-31663-1 MSD

**Matrix: Solid** 

Analysis Batch: 59272

Sample Sample Spike MSD MSD %Rec RPD Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits RPD Limit Chloride 54.5 F1 252 277.1 F1 88 mg/Kg 90 - 110 20

# **QC Association Summary**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (04.01.23)

Job ID: 880-31663-1 SDG: Lea County New Mexico

# **GC VOA**

# Analysis Batch: 59294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31663-1	H-1 (0-0.5')	Total/NA	Solid	8021B	59298
880-31663-2	H-2 (0-0.5')	Total/NA	Solid	8021B	59298
MB 880-59298/5-A	Method Blank	Total/NA	Solid	8021B	59298
LCS 880-59298/1-A	Lab Control Sample	Total/NA	Solid	8021B	59298
LCSD 880-59298/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59298
880-31650-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	59298
880-31650-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	59298

# Prep Batch: 59298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31663-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-31663-2	H-2 (0-0.5')	Total/NA	Solid	5035	
MB 880-59298/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-59298/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-59298/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31650-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-31650-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

# Analysis Batch: 59371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31663-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-31663-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	

# **GC Semi VOA**

## Prep Batch: 59354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31663-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-31663-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-59354/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59354/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59354/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31672-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31672-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 59405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31663-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	59354
880-31663-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	59354
MB 880-59354/1-A	Method Blank	Total/NA	Solid	8015B NM	59354
LCS 880-59354/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59354
LCSD 880-59354/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59354
880-31672-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	59354
880-31672-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59354

# Analysis Batch: 59547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31663-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-31663-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	

**Eurofins Midland** 

2

3

4

6

8

10

12

13

14

# **QC Association Summary**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (04.01.23)

Job ID: 880-31663-1

SDG: Lea County New Mexico

# HPLC/IC

# Leach Batch: 59261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31663-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-31663-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-59261/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59261/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59261/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31663-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-31663-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

# Analysis Batch: 59272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31663-1	H-1 (0-0.5')	Soluble	Solid	300.0	59261
880-31663-2	H-2 (0-0.5')	Soluble	Solid	300.0	59261
MB 880-59261/1-A	Method Blank	Soluble	Solid	300.0	59261
LCS 880-59261/2-A	Lab Control Sample	Soluble	Solid	300.0	59261
LCSD 880-59261/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59261
880-31663-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	59261
880-31663-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	59261

## **Lab Chronicle**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (04.01.23)

SDG: Lea County New Mexico

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

Date Collected: 08/03/23 00:00 Date Received: 08/03/23 16:09

Lab Sample ID: 880-31663-1

Matrix: Solid

Job ID: 880-31663-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	59298	08/04/23 08:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59294	08/04/23 14:28	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59371	08/04/23 18:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			59547	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59354	08/04/23 15:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/07/23 05:34	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59261	08/03/23 17:00	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	59272	08/04/23 00:43	CH	EET MID

Lab Sample ID: 880-31663-2

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

Date Collected: 08/03/23 00:00 Matrix: Solid Date Received: 08/03/23 16:09

	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	59298	08/04/23 08:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59294	08/04/23 14:49	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59371	08/04/23 18:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			59547	08/07/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	59354	08/04/23 15:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59405	08/07/23 05:55	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	59261	08/03/23 17:00	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	59272	08/04/23 00:58	CH	EET MID

**Laboratory References:** 

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

# **Accreditation/Certification Summary**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (04.01.23)

Job ID: 880-31663-1 SDG: Lea County New Mexico

# **Laboratory: Eurofins Midland**

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

<u> </u>		ogram	Identification Number	Expiration Date 06-30-24
		ELAP	T104704400-23-26	
0 ,	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes f
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	

6

8

10

13

14

# **Method Summary**

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (04.01.23)

Job ID: 880-31663-1

SDG: Lea County New Mexico

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

#### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

# Sample Summary

Client: Carmona Resources

Project/Site: Stratocaster 20 Fed 3&4 (04.01.23)

Job ID: 880-31663-1

SDG: Lea County New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31663-1	H-1 (0-0.5')	Solid	08/03/23 00:00	08/03/23 16:09
880-31663-2	H-2 (0-0.5')	Solid	08/03/23 00:00	08/03/23 16:09

		9	

1	3

		_								
		3 3 1	5 216180	-   						The same of the sa
				<u> </u>						
Received by (Signature)	7	ime	Date/Time				/ (Signature)	Relinquished by (Signature)		>
	California Control and Control moenting / Citicenting@californatesources.com	ecarillon		T NO COL	and Con	0 C				
									to Millo Car	`ommonte: Emai
				_						
		×	×	ဂ		×		8/3/2023	0.5')	H-2 (0-0.5')
		×	1 ×	င		×		8/3/2023	0.5')	H-1 (0-0.5')
		TPH	Cont	Grab/ #	Water	Soil	Time	Date	ntification	Sample Identification
NaOH+Ascorbic Acid SAPC		801	***************************************	P	1.1	ature:	Corrected Temperature:			Total Containers
Zn Acetate+NaOH Zn			B1		21	ding	Temperature Reading	8 <b>3</b> (	-	Sample Custody Seals.
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>				Ö	4%		Correction Factor	No MA	s. Yes	Cooler Custody Seals.
NaHSO, NARIS		O + I e 30	8021	d	7		Thermometer ID:			Received Intact:
		-		8	<u></u>	Wet Ice	Yet No	Temp Blank.		SAMPLE RECEIPT
H.SO. H.		+ M	'S	<u></u>			)			PO#:
Cool Cool		RO)		ľ	21117	Dac Date		CRM		Sampler's Name
					3,4 [.	) iia Data		County New M	100	roiect I ocation
None: NO			Pres.	פי ס	✓ Rush	Routine		2035		Project Number
REQUEST	ANALYSIS REQUEST				Turn Around	Turr	(4.01.23)	Stratocaster 20 Fed 3&4 (4.01.23)	Stratoca	Project Name.
Deliverables EDD ADaPT		.com	Email mcarmona@carmonaresources.com	@carmor	mcarmona	Email		3	432-813-6823	Phone
Reporting Level II Level III ST/UST				IP	City, State ZIP			79701	Midland, TX 79701	City, State ZIP
State of Project:					Address.			St Ste 500	310 W Wall St Ste 500	Address.
Program: UST/PST PRP   Irownfields RC				ame:	Company Name:			sources	Carmona Resources	Company Name
Work Order Comments		Carmona Resources	Carmo	ent)	Bill to (if different)			ring	Conner Moehring	Project Manager

# **Login Sample Receipt Checklist**

Client: Carmona Resources

Job Number: 880-31663-1

SDG Number: Lea County New Mexico

List Source: Eurofins Midland

Login Number: 31663

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 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	

Released to Imaging: 11/29/2023 3:17:41 PM

4

6

8

10

12

13

14

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 252100

## **CONDITIONS**

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	252100
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
nvelez	None	11/29/2023