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PROPOSED VARIANCE REQUEST

ConocoPhillips
Federal 29 Z 002H
Eddy County, New Mexico
Unit Letter "L", Section 29, Township 20 South, Range 27 East
Latitude 32.5425° North, Longitude 104.3108° West
NMOCD Reference No. NAPP2221331648

Prepared For:

ConocoPhillips
600 W Illinois Avenue
Midland, Texas 79701

Prepared By:

TRC Environmental Corporation
10 Desta Drive, Suite 130E
Midland, Texas 79705

September 2023

Misti Bryant
Staff Geologist

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Project Manager

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INTRODUCTION & SITE BACKGROUND

TRC Environmental Corporation (TRC), on behalf of ConocoPhillips, has prepared this *Proposed Variance Request* for the Release Site known as the Federal 29 Z 002H (the Site). The legal description of the Site is Unit Letter "L", Section 29, Township 20 South, Range 27 East, in Eddy County, New Mexico. The subject property is owned by the State of New Mexico and administered by New Mexico State Land Office (NMSLO). The GPS coordinates for the Site are N 32.5425°, W 104.3108°. **Figure 1** is a topographic map of the Site.

SITE BACKGROUND

On July 16, 2022, ConocoPhillips (COP) discovered a crude oil release had occurred at the Site. The Release was attributed to a packing blowout. On the discovery date, COP notified the New Mexico Oil Conservation Division (NMOCD) and New Mexico State Land Office (NMSLO) of the Release. The Release was assigned an NMOCD Reference number of NAPP2221331648. On August 01, 2022, the initial Release Notification and Corrective Action (Form C-141) was submitted to the NMOCD. The Form C-141 indicated 1.5 barrels (bbls) of crude oil was released and zero (0) bbls of crude oil was recovered. The Release affected an area measuring approximately 10,800 square feet (sq. ft.). The C-141 indicated the impacted area was located on and off the location pad. A copy of the submitted Form C-141 for the Release is provided in **Appendix A**. The Site location is depicted in **Figure 1. Appendix B** document the characterization parameters of the Site. The affected area is depicted in **Figure 2**.

REGULATORY FRAMEWORK

Based on a review of the New Mexico Office of State Engineers and United States Geological Survey (USGS) databases, there is no known water source within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.70 miles Southeast of the site in S29, T20S, R27E and was drilled in 1957. The well has a reported depth to groundwater of 83.75 feet below ground surface (ft bgs). A copy of the associated Point of Diversion Summary report is attached in **Appendix B**.

Based on the inferred depth to groundwater at the Federal 29 Z 002H Release Site, the NMOCD *Closure Criteria for Soils Impacted by a Release* may not warrant the most stringent closure criteria listed, due to the lack of definitive depth to groundwater data. However, the Federal 29 Z 002H is within 300 feet of a significant watercourse and/or wetland denoted as a riverine in **Appendix B**. Additionally, the Federal 29 Z 002H is located in the 'high karst' area as outlined in Bureau of Land Management (BLM) publicly available Karst Potential Map and is provided in **Appendix B**. The NMOCD stance on the regulation of releases at Sites adjacent to flowing or significant watercourses, wetlands, and 'high karst' areas requires that COP utilize the most stringent NMOCD Closure Criteria for Soils Impacted by a Release for the Federal 29 Z 002H as follows:

- Benzene – 10 mg/kg
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) – 50 mg/kg
- Total Petroleum Hydrocarbons (TPH) –100 mg/kg
- Chloride – 600 mg/kg

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SOIL INVESTIGATION SUMMARY AND PREVIOUSLY SUBMITTED AND APPROVED WORKPLAN

On September 20, 2022, Carmona Resources, LLC (Carmona Resources) performed site assessment activities to evaluate soil impacts stemming from the release. A total of six (6) sample points and seven (7) horizontal samples were advanced to depths ranging from the surface to 4.5 ft bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. See **Figure 2** for the soil 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. Vertical delineation was not achieved due to the dense layer encountered. Horizontal delineation was achieved. Soil sample locations H-1 through H-7 exhibited concentrations below the regulatory limits for benzene, total BTEX, TPH, and chloride. **Table 1** includes the tabulated data provided by Carmona Resources for convenience.

Due to the heavy rainfall events and lack of complete vertical delineation, Carmona Resources returned to the Site on December 9, 2022, to vertically delineate the area of S-3 and evaluate soil impacts stemming from the release. One (1) trench (T-1) was installed to a total depth from surface to 6.0 ft below ground surface. Soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. The area of Trench-1 showed no chloride concentrations above NMOCD guidelines from surface to 6.0 ft below ground surface. The rain appears to have diluted or migrated the elevated chloride concentrations during the rainfall events.

Based on delineation data, the previously submitted and approved workplan proposed excavating the area represented by sample location S-6 to a depth of approximately 4 ft bgs, with confirmation samples on a 400 sq. ft. basis to confirm removal. The previously submitted and approved workplan is included as **Appendix C**.

The workplan was submitted to the NMOCD on December 15, 2022. The NMOCD approved the workplan on March 17, 2023 with the following conditional response:

> The Remediation Plan is Conditionally Approved. This release is in a high karst area and will need to be remediated to the strictest closure criteria of <50' depth to groundwater from Table 1 of the spill rule. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. The variance for 400 ft^2 confirmation samples is approved. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Any contaminants left in place will need to be fully delineated and require a facility deconstruction to qualify for a deferral. Please remove contaminants with alternative methods around oil/gas equipment. The work will need to occur in 90 days after the work plan has been approved.

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PROPOSED VARIANCE REQUEST FOR APPROVED REMEDIATION WORKPLAN

On June 21, 2023, TRC requested an extension on the behalf of COP to confirm Site conditions prior to initiating remediation activities. The NMOCD granted the extension to September 21, 2023.

On July 13, 2023, TRC notified the NMOCD of the intent to begin remediation on July 17th. TRC completed the pre-remediation Site kickoff on July 17th, at which time no hydrocarbon surface staining was noted in the area to be remediated – soil sample location S-6. The initial workplan assumed S-6 was at the edge of the former reserve pit footprint, but an attempt to confirm prior to initiating remediation indicated S-6 was within the former reserve pit footprint. TRC attempted to determine the lateral extents of chloride concentrations associated with soil sample location S-6, and initial field screen data showed elevated chloride concentrations across the former reserve pit area. Elevated chloride concentrations in this area appear to be related to the former reserve pit rather than the Release. Photographic documentation is provided as **Appendix D**.

TRC did not begin the remediation due to the former reserve pit findings. COP and TRC reviewed all the data and noted the Release was a non-reportable (less than 5 bbl of fluid) overspray release of crude oil only. The overspray mechanism typically limits soil impacts to surface only and there were no produced water fluids reported. The elevated chloride concentrations to approximately 3.5 ft bgs are unlikely to be resultant of this non-reportable volume overspray crude oil release. Additionally, no soil samples submitted were affected above NMOCD guidelines for benzene, BTEX, or TPH. The lack of elevated hydrocarbon concentrations across the Site corroborates this interpretation. Prior to initiating remediation according to the approved workplan, COP requested a meeting with the NMOCD with the findings of non-reportable status and elevated chloride concentrations associated with the former reserve pit to clarify the path forward.

COP, TRC, and the NMOCD met virtually on August 2, 2023 to discuss the findings at the Site. During the meeting, the NMOCD indicated that despite the release volume of less than 5 bbls, the C-141 could not be retracted. Additionally, despite the lack of produced water from the Release, the elevated chloride concentrations associated with soil sample location S-6 must be addressed. However, a variance may be requested to the sampling requirements to avoid excavating the entirety of the former reserve pit area.

In response to the meeting on August 2, 2023, COP proposes to excavate the footprint of the overspray release in the area represented by soil sample S-6 to a depth of four (4) ft bgs, which based on the delineation data provided in the formerly approved workplan will remove the documented elevated chloride concentrations above NMOCD guidelines associated with soil sample location S-6. COP would like to respectfully request a variance under NMAC 19.15.29 to the requirement for confirmation sampling for the Release site and will limit the excavation to the indicated footprint and the prescribed four (4) foot depth. COP requests that no floor or sidewall samples be required, as the indicated footprint and four (4) foot depth will remove far more soil than was affected by an overspray release of crude oil only. The estimated volume of soil removed will be approximately 1,050 cubic yards, which will be transported to an NMOCD approved disposal facility. The Site will then be backfilled with locally sourced 'like' material to near original grade.

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COP is prepared to begin the activities outlined in this *Proposed Variance Request* following NMOCD and BLM approval. On completion of remediation activities, a Remediation Summary and Closure Report will be prepared detailing field activities.

If you have any questions, or need any additional information, please feel free to contact myself or Ike Tavarez by phone or email.

LIMITATION

TRC has prepared this Proposed Variance Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of ConocoPhillips. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or ConocoPhillips.

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DISTRIBUTION

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Midland, Texas 79701

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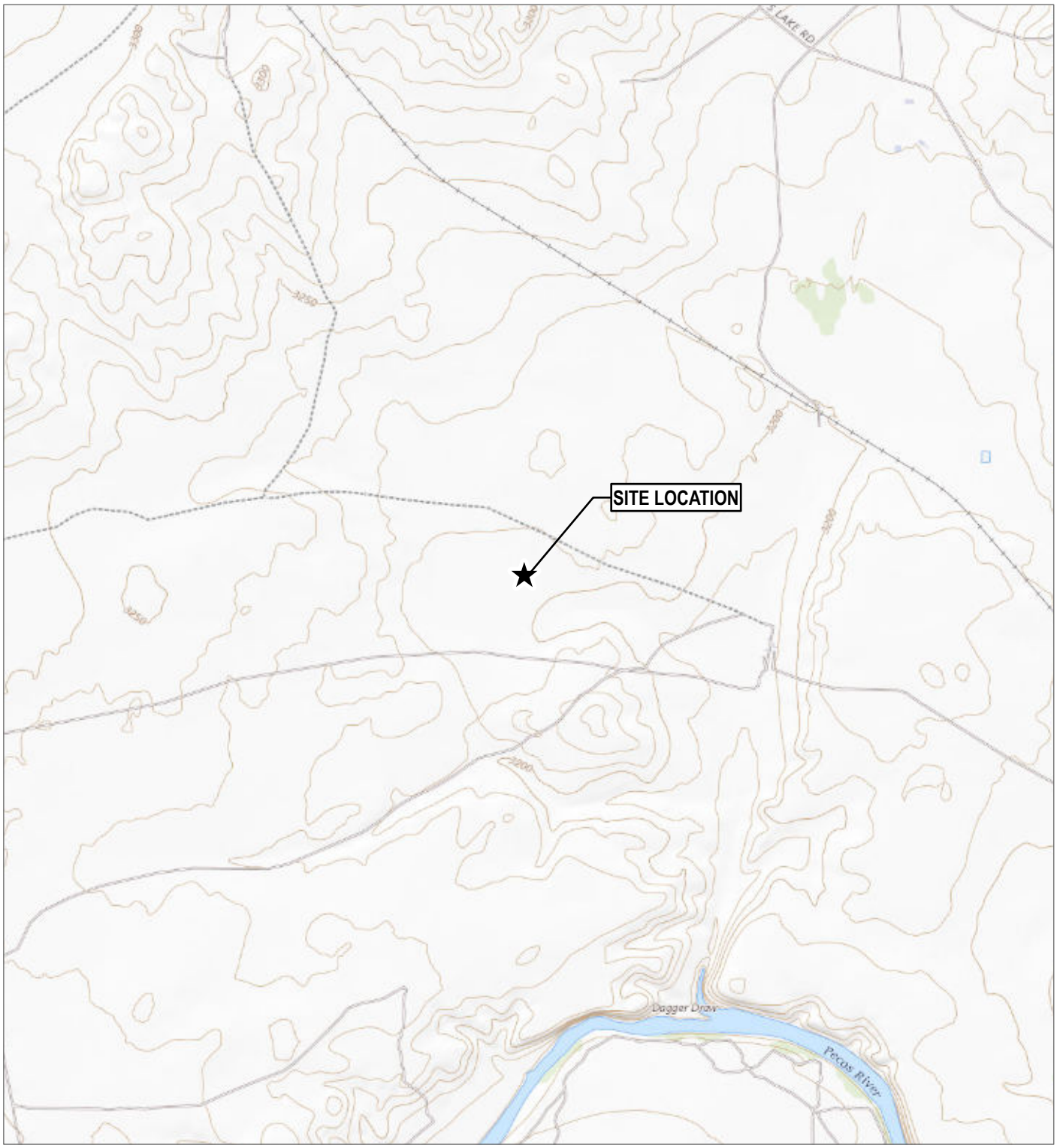
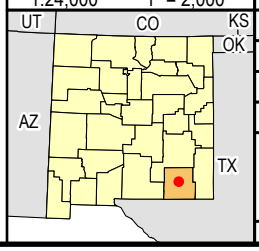


0 1,000 2,000

FEET

1:24,000 1" = 2,000'



BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

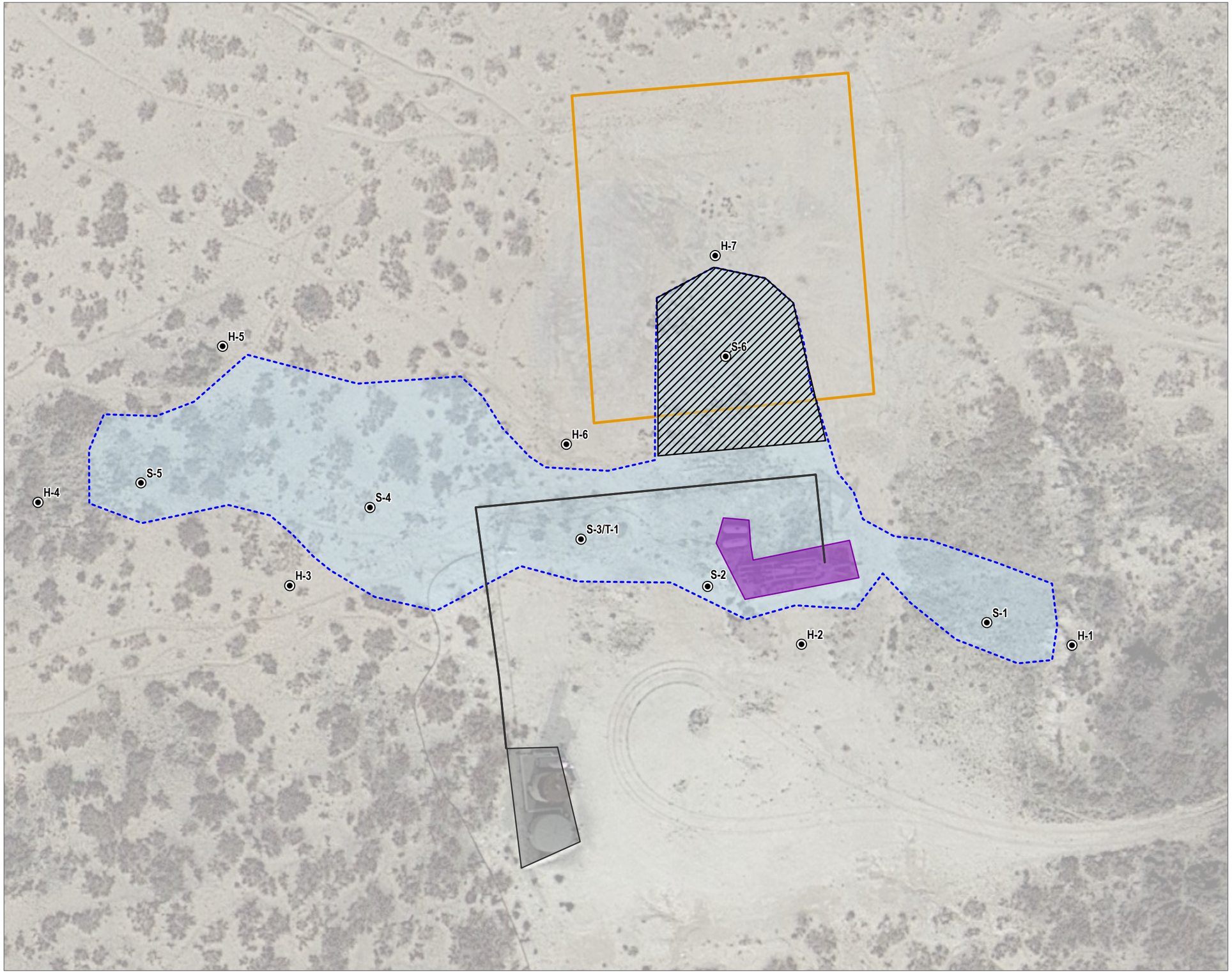
PROJECT:
CONOCOPHILLIPS
FEDERAL 29 Z 002H
EDDY COUNTY, NEW MEXICO

TITLE:
TOPOGRAPHIC MAP

DRAWN BY:	S. RAY	PROJ. NO.:	544675.0000.0000
CHECKED BY:	M. BRYANT		
APPROVED BY:	M. BRYANT		**FIGURE 1**
DATE:	AUGUST 2023		

TRC
1180 NW MAPLE STREET, SUITE 310
ISSAQUAH, WA 98027
PHONE: 425.395.0010

FILE: FEDERAL 29 Z 002H



DELINEATION SAMPLE LOCATION
SURFACE STEEL LINE
PIT LOCATION
PROPOSED 4' EXCAVATION
RELEASE AREA
TANK BATTERY
WELLHEAD AND ASSOCIATED INFRASTRUCTURE

BASE MAP: GOOGLE EARTH PRO AND THEIR DATA PARTNERS (12/21/2019).
DATA SOURCES: TRC.

NOTES
SAMPLE LOCATIONS AND ANALYTICAL DATA FROM CARMONA RESOURCES WORKPLAN

1:480
1" = 40'

0 25 50 FEET

PROJECT:	CONOCOPHILLIPS FEDERAL 29 Z 002H EDDY COUNTY, NEW MEXICO
TITLE:	SAMPLE LOCATIONS AND PROPOSED EXCAVATION MAP
DRAWN BY: A. CLINE	PROJ. NO.: 544675.0000.0000
CHECKED BY: B. TRACY	FIGURE 2
APPROVED BY: M. BRYANT	
DATE: AUGUST 2023	
FILE:	Federal 29 Z 002H.aprx

TRC

Coordinate System: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet; Map Rotation: 0
Saved By: ACLINE on 8/24/2023 08:15:40 AM; File Path: T:\1-PROJECTS\ConocoPhillips\544675_Federal29Z\2-APRX\Federal 29 Z 002H.aprx; Layout Name: Fig 4 - Sample Location Map

Federal 29 Z 002H

Table 1 - Summary of Carmona Resources Analytical Data

SAMPLE ID	SAMPLE DEPTH (FT)	SAMPLE DATE	Proposed Soil Status	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Xylenes, Total (mg/Kg)	Total BTEX (mg/Kg)	Gasoline Range Organics (GRO)-C6-C10 (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
NMOCD Standards	-	-		**5**	-	-	-	**50**	-	-	-	**100**	**600**
Veritcal Delineation													
S-1 (0-1')	1'	9/20/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	12.0
S-1 (1.5')	1.5	9/20/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	33.0
S-1 (2')	2'	9/20/22	In-Situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	60.2
S-2 (0-1')	1'	9/20/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	12.3
S-2 (1.5')	1.5'	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	14.7
S-2 (2')	2'	9/20/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	18.6
S-2 (2.5')	2.5'	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.8	<49.8	<49.8	<49.8	14.0
S-3 (0-1')	1'	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	43.1
S-3 (1.5')	1.5'	9/20/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	59.7
S-3 (2')	2'	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	170
S-3 (2.5')	2.5'	9/20/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	**815**
S-3 (3')	3'	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	161
S-3 (3.5')	3.5'	9/20/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	**1,090**
S-3 (4')	4'	9/20/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	**1,560**
S-4 (0-1')	1'	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	18.3
S-4 (1.5')	1.5'	9/20/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	19.6
S-4 (2')	2'	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	16.6
S-5 (0-1')	1'	9/20/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	19.1
S-5 (1.5')	1.5'	9/20/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	12.6
S-5 (2')	2'	9/20/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	16.0
S-6 (0-1')	1'	9/20/22	Excavate	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	**3,860**
S-6 (1.5')	1.5'	9/20/22	Excavate	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	**2,320**
S-6 (2')	2'	9/20/22	Excavate	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	**773**
S-6 (2.5')	2.5'	9/20/22	Excavate	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	**1,630**

Federal 29 Z 002H

Table 1 - Summary of Carmona Resources Analytical Data

SAMPLE ID	SAMPLE DEPTH (FT)	SAMPLE DATE	Proposed Soil Status	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Xylenes, Total (mg/Kg)	Total BTEX (mg/Kg)	Gasoline Range Organics (GRO)-C6-C10 (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
NMOCD Standards	-	-		**5**	-	-	-	**50**	-	-	-	**100**	**600**
S-6 (3')	3'	9/20/22	Excavate	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	<50.0	<50.0	<50.0	**1,540**
S-6 (3.5')	3.5'	9/20/22	Excavate	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	**1,170**
S-6 (4')	4'	9/20/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	291
S-6 (4.5)	4.5	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	293
T-1 (0-1')	1'	12/9/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	34.0
T-1 (1.5')	1.5'	12/9/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	63.9
T-1 (2')	2'	12/9/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	344
T-1 (3')	3'	12/9/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	492
T-1 (4')	4'	12/9/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	<49.8	<49.8	<49.8	228
T-1 (5')	5'	12/9/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	85.6
T-1 (6')	6'	12/9/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	177
Horizontal Delineation													
H-1 (0-0.5')	0.5'	9/20/22	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	15.3
H-2 (0-0.5')	0.5'	9/20/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	220
H-3 (0-0.5')	0.5'	9/20/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	8.83
H-4 (0-0.5')	0.5'	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	11.3
H-5 (0-0.5')	0.5'	9/20/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	<49.8	<49.8	<49.8	9.39
H-6 (0-0.5')	0.5'	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	8.84
H-7 (0-0.5')	0.5'	9/20/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	99.5	<49.8	99.5	103

Definitions

X	Analyte analytical result exceeds NMOCD regulatory guideline.
X	Analyte detected above the detection limit at a concentration equal to X.
<x	Analyte not detected at detection limit equal to x.
--	

Abbreviations

mg/Kg	Milligrams per Kilogram
TPH	Total Petroleum Hydrocarbon
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
NMOCD	New Mexico Oil Conservation District

10 Desta Dr., Suite 150E
Midland, TX 79705
T 432.520.7720
TRCcompanies.com

Appendix A – Release Notification and Corrective Action (Form C-141)

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: Ike Tavarez Date: 9/20/2023

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

10 Desta Dr., Suite 150E
Midland, TX 79705
T 432.520.7720
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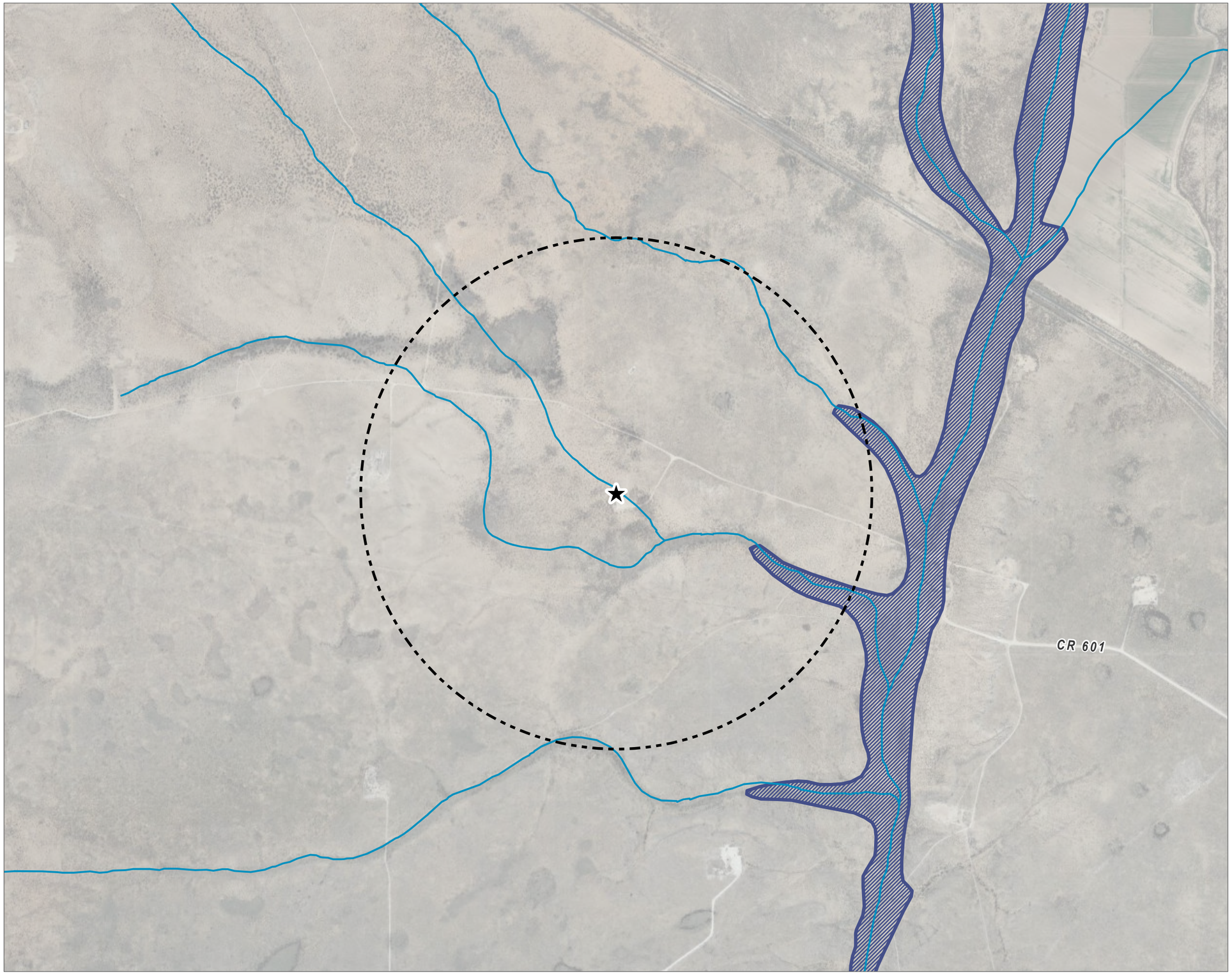
Appendix B – Site Characterization Summary



HALF-MILE RADIUS

SITE LOCATION

AREA INSIDE OF 100-YEAR FLOODPLAIN

RIVERINE

BASE MAP: GOOGLE EARTH PRO AND THEIR DATA PARTNERS (12/21/2019).
DATA SOURCES: TRC, FEMA, NWI.

N

1:12,000
1" = 1,000'

0 500 1,000
FEET

PROJECT:
CONOCOPHILLIPS
FEDERAL 29 Z 002H
EDDY COUNTY, NEW MEXICO

TITLE:
AERIAL MAP

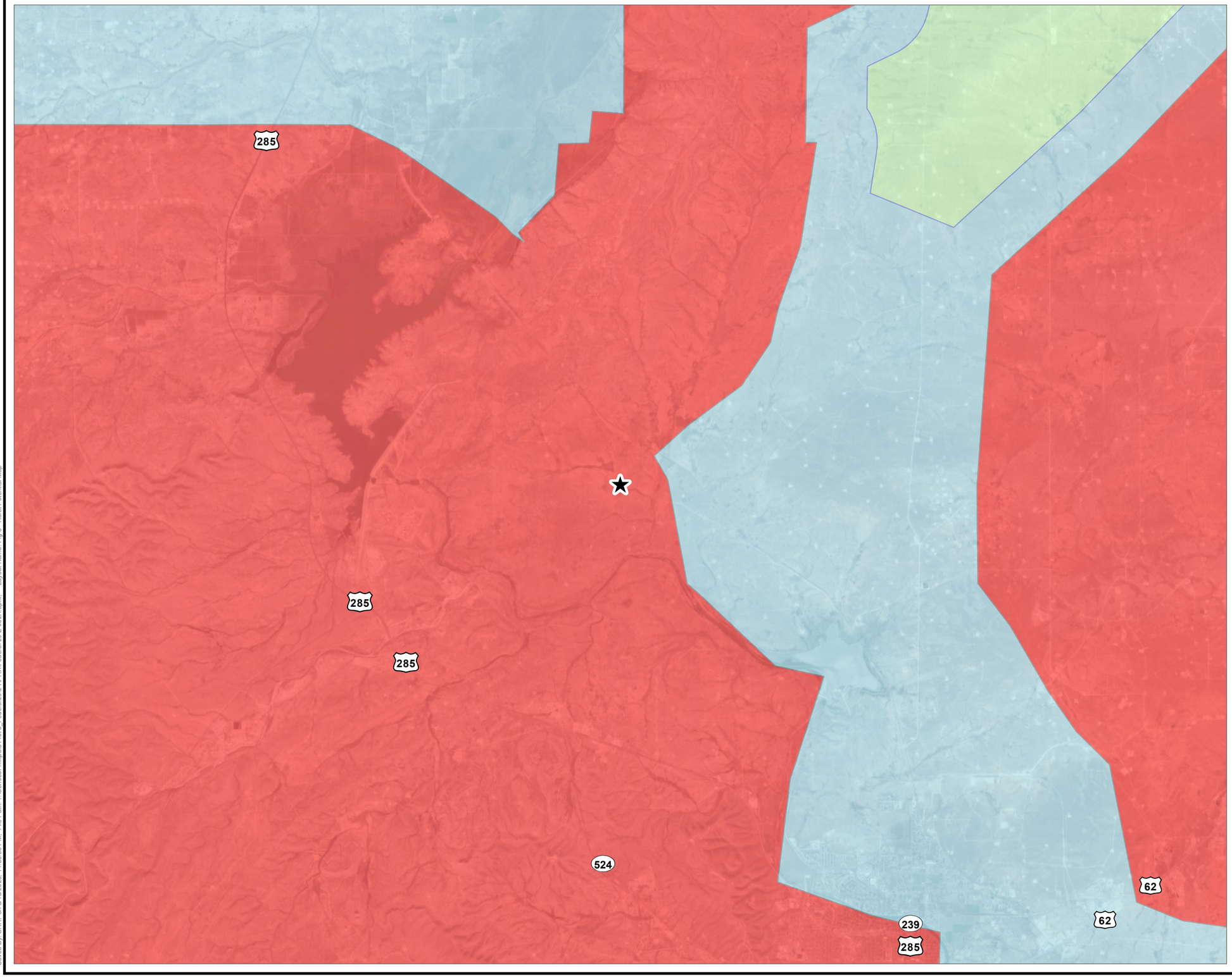
DRAWN BY:	S. RAY	PROJ. NO.:	544675.0000.0000
CHECKED BY:	M. BRYANT		
APPROVED BY:	M. BRYANT		
DATE:	AUGUST 2023		

APPENDIX B
MAP A

TRC
1180 NW MAPLE STREET, SUITE 310
ISSAQUAH, WA 98027
PHONE: 425.395.0010

FILE: Federal 29 Z 002H.aprx

Coordinate System: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet - Map Rotation: 0
Saved By: SRAY on 8/1/2023 - 1:48:35 PM - File Path: I:\ConocoPhillips\544675_Federal\29\2-APRX\Federal 29 Z 002H.aprx - Layout Name: Fig 2 - Aerial Map



★ SITE LOCATION

LOW KARST POTENTIAL

MEDIUM KARST POTENTIAL

HIGH KARST POTENTIAL

BASE MAP: GOOGLE EARTH PRO AND THEIR DATA PARTNERS (12/21/2019).
DATA SOURCES: TRC.

1:100,000
1" = 2 MILES

0 1 2 MILES

PROJECT:
CONOCOPHILLIPS
FEDERAL 29 Z 002H
EDDY COUNTY, NEW MEXICO

TITLE:
KARST POTENTIAL MAP

DRAWN BY:	S. RAY	PROJ. NO.:	544675.0000.0000
CHECKED BY:	M. BRYANT		
APPROVED BY:	M. BRYANT		
DATE:	AUGUST 2023		

APPENDIX B
MAP B

TRC
1180 NW MAPLE STREET, SUITE 310
ISSAQUAH, WA 98027
PHONE: 425.395.0010

FILE: Federal 29 Z 002H.aprx

Coordinate System: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet, Map Rotation: 0
Saved By: SRAY on 8/16/2023 - 11:55:35 PM, File Path: T:\ConocoPhillips\544675_Federal\29\2-APRX\Federal 29 Z 002H.aprx; Layout Name: Fig 3 - Karst Potential Map

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

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

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

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

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 00419	C	CUB	ED	3	3	4	19	20S	27E	563904	3601904*	1391	1813		
RA 03979		RA	ED	1	1	3	21	20S	27E	566306	3602539*	2309	190		
RA 10049		RA	ED	4	3	1	21	20S	27E	566506	3602744*	2595	200		
RA 04764		RA	ED		3	1	21	20S	27E	566407	3602845*	2608	171	150	21
RA 05857		RA	ED	2	2	2	20	20S	27E	566104	3603346*	2861			
C 01182		C	ED	1	1	4	36	20S	26E	562296	3599260*	2921	150	135	15
RA 07841		RA	ED		1	1	21	20S	27E	566408	3603251*	2936	200	140	60

Average Depth to Water: **141 feet**

Minimum Depth: **135 feet**

Maximum Depth: **150 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 564769.94 **Northing (Y):** 3600814.18 **Radius:** 4000

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

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 323229104175401

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

USGS 323229104175401 20S.27E.29.441131

Eddy County, New Mexico
Latitude 32°32'29", Longitude 104°17'54" NAD27
Land-surface elevation 3,199 feet above NAVD88
The depth of the well is 125 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1948-10-06		D	62610		3121.75	NGVD29	1	Z		
1948-10-06		D	62611		3123.30	NAVD88	1	Z		
1948-10-06		D	72019	75.70			1	Z		
1953-03-05		D	62610		3118.79	NGVD29	P	Z		
1953-03-05		D	62611		3120.34	NAVD88	P	Z		
1953-03-05		D	72019	78.66			P	Z		
1953-03-12	21:23 UTC	m	62610		3118.42	NGVD29	P	S	USGS	
1953-03-12	21:23 UTC	m	62611		3119.97	NAVD88	P	S	USGS	
1953-03-12	21:23 UTC	m	72019	79.03			P	S	USGS	
1953-04-03		D	62610		3117.75	NGVD29	1	Z		
1953-04-03		D	62611		3119.30	NAVD88	1	Z		
1953-04-03		D	72019	79.70			1	Z		
1953-06-12		D	62610		3115.87	NGVD29	1	Z		
1953-06-12		D	62611		3117.42	NAVD88	1	Z		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1953-06-12		D	72019	81.58			1	Z		
1953-07-02		D	62610		3115.00	NGVD29	1	Z		
1953-07-02		D	62611		3116.55	NAVD88	1	Z		
1953-07-02		D	72019	82.45			1	Z		
1953-07-17		D	62610		3114.58	NGVD29	1	Z		
1953-07-17		D	62611		3116.13	NAVD88	1	Z		
1953-07-17		D	72019	82.87			1	Z		
1953-08-10		D	62610		3113.91	NGVD29	1	Z		
1953-08-10		D	62611		3115.46	NAVD88	1	Z		
1953-08-10		D	72019	83.54			1	Z		
1953-09-19		D	62610		3114.23	NGVD29	1	Z		
1953-09-19		D	62611		3115.78	NAVD88	1	Z		
1953-09-19		D	72019	83.22			1	Z		
1953-10-31		D	62610		3114.57	NGVD29	1	Z		
1953-10-31		D	62611		3116.12	NAVD88	1	Z		
1953-10-31		D	72019	82.88			1	Z		
1953-11-20		D	62610		3114.65	NGVD29	1	Z		
1953-11-20		D	62611		3116.20	NAVD88	1	Z		
1953-11-20		D	72019	82.80			1	Z		
1953-12-08		D	62610		3114.77	NGVD29	1	Z		
1953-12-08		D	62611		3116.32	NAVD88	1	Z		
1953-12-08		D	72019	82.68			1	Z		
1954-01-18		D	62610		3116.74	NGVD29	1	Z		
1954-01-18		D	62611		3118.29	NAVD88	1	Z		
1954-01-18		D	72019	80.71			1	Z		
1954-03-15		D	62610		3117.63	NGVD29	1	Z		
1954-03-15		D	62611		3119.18	NAVD88	1	Z		
1954-03-15		D	72019	79.82			1	Z		
1954-04-09		D	62610		3116.99	NGVD29	1	Z		
1954-04-09		D	62611		3118.54	NAVD88	1	Z		
1954-04-09		D	72019	80.46			1	Z		
1954-05-28		D	62610		3115.62	NGVD29	1	Z		
1954-05-28		D	62611		3117.17	NAVD88	1	Z		
1954-05-28		D	72019	81.83			1	Z		
1954-06-25		D	62610		3115.07	NGVD29	1	Z		
1954-06-25		D	62611		3116.62	NAVD88	1	Z		
1954-06-25		D	72019	82.38			1	Z		
1954-07-30		D	62610		3113.51	NGVD29	1	Z		
1954-07-30		D	62611		3115.06	NAVD88	1	Z		
1954-07-30		D	72019	83.94			1	Z		
1954-09-28		D	62610		3113.06	NGVD29	1	Z		
1954-09-28		D	62611		3114.61	NAVD88	1	Z		
1954-09-28		D	72019	84.39			1	Z		
1954-10-18		D	62610		3113.87	NGVD29	1	Z		
1954-10-18		D	62611		3115.42	NAVD88	1	Z		
1954-10-18		D	72019	83.58			1	Z		
1954-11-30		D	62610		3116.92	NGVD29	1	Z		
1954-11-30		D	62611		3118.47	NAVD88	1	Z		
1954-11-30		D	72019	80.53			1	Z		
1954-12-31		D	62610		3118.45	NGVD29	1	Z		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1954-12-31		D	62611		3120.00	NAVD88	1	Z		
1954-12-31		D	72019	79.00			1	Z		
1955-01-28		D	62610		3119.38	NGVD29	1	Z		
1955-01-28		D	62611		3120.93	NAVD88	1	Z		
1955-01-28		D	72019	78.07			1	Z		
1955-02-25		D	62610		3119.01	NGVD29	1	Z		
1955-02-25		D	62611		3120.56	NAVD88	1	Z		
1955-02-25		D	72019	78.44			1	Z		
1955-03-12		D	62610		3118.42	NGVD29	1	Z		
1955-03-12		D	62611		3119.97	NAVD88	1	Z		
1955-03-12		D	72019	79.03			1	Z		
1955-03-25		D	62610		3117.95	NGVD29	1	Z		
1955-03-25		D	62611		3119.50	NAVD88	1	Z		
1955-03-25		D	72019	79.50			1	Z		
1955-04-26		D	62610		3117.50	NGVD29	1	Z		
1955-04-26		D	62611		3119.05	NAVD88	1	Z		
1955-04-26		D	72019	79.95			1	Z		
1955-05-24		D	62610		3116.45	NGVD29	1	Z		
1955-05-24		D	62611		3118.00	NAVD88	1	Z		
1955-05-24		D	72019	81.00			1	Z		
1955-06-17		D	62610		3115.42	NGVD29	1	Z		
1955-06-17		D	62611		3116.97	NAVD88	1	Z		
1955-06-17		D	72019	82.03			1	Z		
1955-07-26		D	62610		3113.76	NGVD29	1	Z		
1955-07-26		D	62611		3115.31	NAVD88	1	Z		
1955-07-26		D	72019	83.69			1	Z		
1955-08-30		D	62610		3114.73	NGVD29	1	Z		
1955-08-30		D	62611		3116.28	NAVD88	1	Z		
1955-08-30		D	72019	82.72			1	Z		
1955-09-22		D	62610		3115.31	NGVD29	1	Z		
1955-09-22		D	62611		3116.86	NAVD88	1	Z		
1955-09-22		D	72019	82.14			1	Z		
1955-10-19		D	62610		3117.12	NGVD29	1	Z		
1955-10-19		D	62611		3118.67	NAVD88	1	Z		
1955-10-19		D	72019	80.33			1	Z		
1955-11-23		D	62610		3120.38	NGVD29	1	Z		
1955-11-23		D	62611		3121.93	NAVD88	1	Z		
1955-11-23		D	72019	77.07			1	Z		
1955-12-28		D	62610		3122.85	NGVD29	1	Z		
1955-12-28		D	62611		3124.40	NAVD88	1	Z		
1955-12-28		D	72019	74.60			1	Z		
1956-01-28		D	62610		3123.08	NGVD29	1	Z		
1956-01-28		D	62611		3124.63	NAVD88	1	Z		
1956-01-28		D	72019	74.37			1	Z		
1957-01-24		D	62610		3113.70	NGVD29	P	Z		
1957-01-24		D	62611		3115.25	NAVD88	P	Z		
1957-01-24		D	72019	83.75			P	Z		

Explanation

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

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

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

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2022-08-01 11:27:29 EDT
0.33 0.28 nadww02

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 323336104173501

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

USGS 323336104173501 20S.27E.21.31112

Eddy County, New Mexico
Latitude 32°33'36", Longitude 104°17'35" NAD27
Land-surface elevation 3,222 feet above NAVD88
The depth of the well is 190 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1961-01-03		D	62610		3109.46	NGVD29	1	Z		
1961-01-03		D	62611		3111.02	NAVD88	1	Z		
1961-01-03		D	72019	110.98			1	Z		
1963-09-04		D	62610		3100.29	NGVD29	1	Z		
1963-09-04		D	62611		3101.85	NAVD88	1	Z		
1963-09-04		D	72019	120.15			1	Z		
1984-02-28		D	62610		3108.53	NGVD29	1	Z		
1984-02-28		D	62611		3110.09	NAVD88	1	Z		
1984-02-28		D	72019	111.91			1	Z		
1989-02-14		D	62610		3110.41	NGVD29	1	Z		
1989-02-14		D	62611		3111.97	NAVD88	1	Z		
1989-02-14		D	72019	110.03			1	Z		
1993-02-10		D	62610		3108.55	NGVD29	1	S		
1993-02-10		D	62611		3110.11	NAVD88	1	S		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1993-02-10		D	72019	111.89			1	S		
1994-02-11		D	62610		3105.41	NGVD29	1	S		
1994-02-11		D	62611		3106.97	NAVD88	1	S		
1994-02-11		D	72019	115.03			1	S		
1999-01-28		D	62610		3105.12	NGVD29	1	S	USGS	
1999-01-28		D	62611		3106.68	NAVD88	1	S	USGS	
1999-01-28		D	72019	115.32			1	S	USGS	
2015-01-12	20:45 UTC	m	62610		3108.31	NGVD29	1	S	NM001	
2015-01-12	20:45 UTC	m	62611		3109.87	NAVD88	1	S	NM001	
2015-01-12	20:45 UTC	m	72019	112.13			1	S	NM001	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	NM001	New Mexico State Engineers Office
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	A	Reported by another government agency (do not use "A" if reported by owner, use "O").
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	RA 04764	3	1		21	20S	27E	566407	3602845*

Driller License:	28	**Driller Company:**	SMITH, A.F.		
Driller Name:	SMITH, A.F.				
Drill Start Date:	02/01/1963	**Drill Finish Date:**	02/02/1963	**Plug Date:**	
Log File Date:	02/21/1963	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	171 feet	**Depth Water:**	150 feet

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

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 01182	1	1	4	36	20S	26E	562296	3599260*

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

Driller Name: BARRON, EMMETT

Drill Start Date:	04/06/1964	**Drill Finish Date:**	04/10/1964	**Plug Date:**	
Log File Date:	05/01/1964	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	7.00	**Depth Well:**	150 feet	**Depth Water:**	135 feet

Water Bearing Stratifications:	Top	Bottom	Description
	140	150	Limestone/Dolomite/Chalk

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

10 Desta Dr., Suite 150E
Midland, TX 79705
T 432.520.7720
TRCcompanies.com

Appendix C – Previously Submitted and Approved Workplan

CARMONA RESOURCES

SITE INFORMATION

Work Plan
Federal 29 Z 002H (07.16.22)
Incident # NAPP2221331648
Eddy County, New Mexico
Unit L Sec 29 T20S R27E
32.5425°, -104.3108°

Crude Oil Release
Point of Release: Packing blowout
Release Date: 07.16.22
Volume Released: 1.5 barrels of Crude Oil
Volume Recovered: 0 barrels of Crude Oil

CARMONA RESOURCES

Prepared for:
Concho Operating, LLC
15 West London Road
Loving, New Mexico 88256

Prepared by:
Carmona Resources, LLC
310 West Wall Street
Suite 415
Midland, Texas 79701

310 West Wall Street, Suite 415
Midland TX, 79701
432.813.1992

CARMONA RESOURCES

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1.0 SITE INFORMATION AND BACKGROUND

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310 West Wall Street, Suite 415
Midland TX, 79701
432.813.1992

CARMONA RESOURCES

December 15, 2022

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

Re: Work Plan
Federal 29 Z 002H (07.16.22)
Concho Operating, LLC
Incident # NAPP2221331648
Site Location: Unit L, S29, T20S, R27E
(Lat 32.5425°, Long -104.3108°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site activities for the Federal 29 Z 002H (07.16.22). The site is located at 32.5425°, -104.3108 º within Unit L, S29, T20S, R27E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on July 16, 2022, from a packing blowout. It resulted in the release of approximately one point five (1.5) barrels of crude oil, and zero (0) barrels were recovered. Refer to Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is no known water source within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.70 miles Southeast of the site in S29, T20S, R27E and was drilled in 1957. The well has a reported depth to groundwater of 83.75' below ground surface (ft bgs). A copy of the associated Point of Diversion Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

310 West Wall Street, Suite 415
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432.813.1992

CARMONA RESOURCES

4.0 Site Assessment Activities

Initial Assessment

On September 20, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of six (6) sample points and seven (7) horizontal samples were advanced to depths ranging from the surface to 4.5' bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. See Figure 3 for the soil 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.

Vertical delineation was not achieved due to the dense layer encountered. Refer to Table 1.

Horizontal Delineation

The areas of H-1 through H-7 were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

Trenching

Based on the area having heavy rainfall events, Carmona Resources returned to the location on December 9, 2022, to vertically delineate the area of S-3 and evaluate soil impacts stemming from the release. A total of one (1) trench (T-1) was installed to a total depth from surface to 6.0 ft below the surface. Soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are includedin Appendix E. The sample locations are shown in Figure 3.

The area of Trench-1 showed no chloride impact from surface to 6.0 ft below the surface. The rain has significantly helped dilute or migrate the chloride concentrations during the rainfall events. Vertical delineation was achieved. Refer to Table 1.

5.0 Proposed Work Plan

Based on the analytical data and the detected chloride concentrations, Concho proposes to remediate the areas shown in Figure 4 and highlighted (blue) in Table 1.

- The area of S-6 will be excavated to a depth of 4.0' below the surface and backfilled with clean material to grade. Which is on the edge of the reserve pit.
- COG requests to collect composite sidewall samples from the surface to 1' to mitigate digging into and sampling the possible impact from the reserve pit at 4.0'.
- An estimated 875 cubic yards will be removed and hauled to the nearest disposal based on the maximum depth.
- A variance is requested per 19.15.29.14. A NMAC, Five-point composite bottom floor hole, and sidewall samples will be collected every 400 square feet to represent the release area.
- Once the site activities and excavation are complete, the areas will be backfilled with clean material to surface grade. The remediation will be implemented 90 days after the work plan is approved.

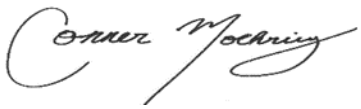
- Impacted soil around the reserve pit, oil and gas equipment, structures, or lines may not be removed during remediation activities due to safety concerns for the onsite personnel. However, COG will excavate the impacted soils to the maximum extent possible.

6.0 Conclusions

Upon completion, a final closure report describing the remediation activities will be presented to the New Mexico Oil Conservation Division (NMOCD). If you have any questions regarding this report or need additional information, don't hesitate to contact us at 432-813-1992.

Sincerely,
Carmona Resources, LLC

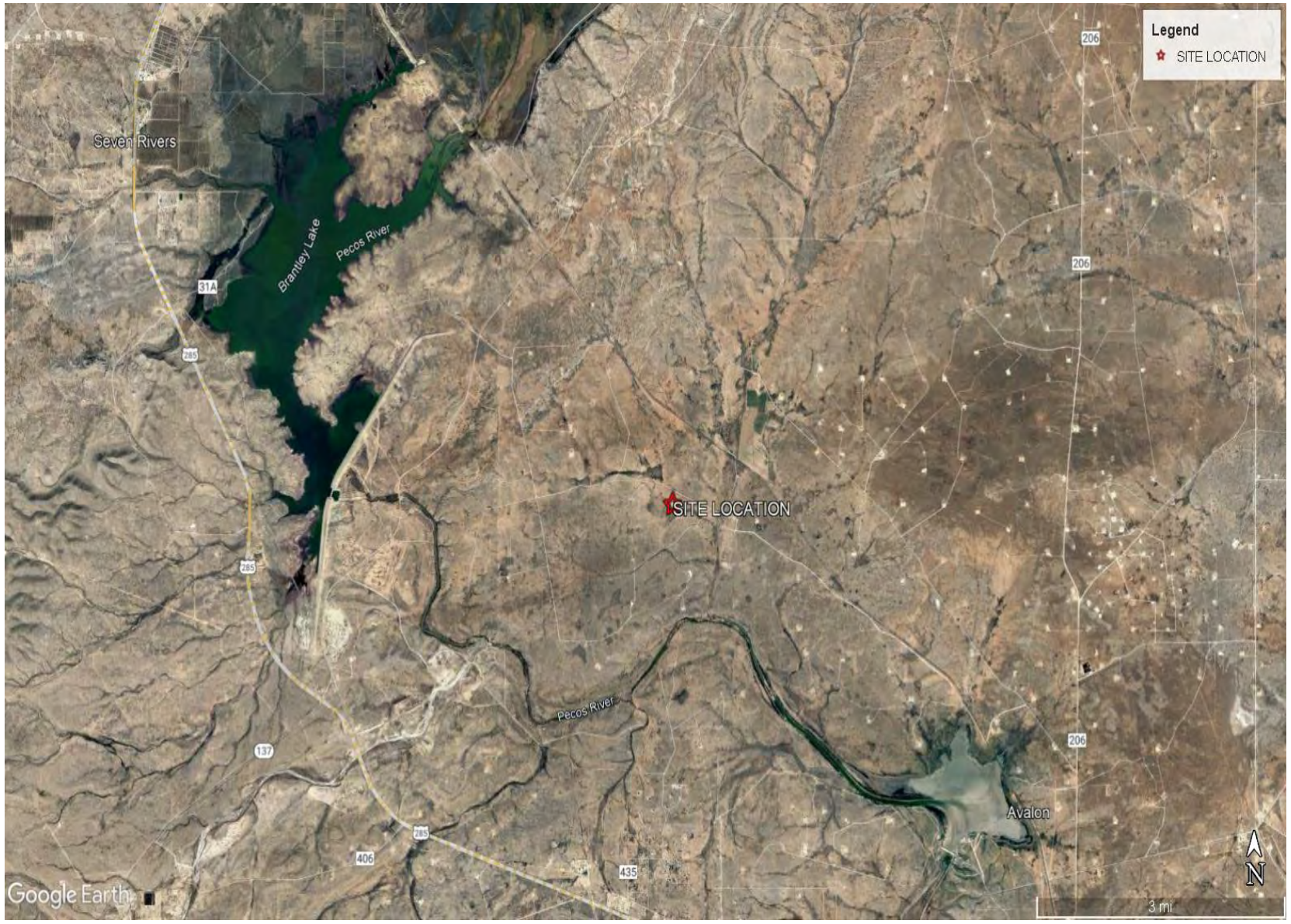
Mike Carmona
Environmental Manager



Conner Moehring
Sr. Project Manager

FIGURES

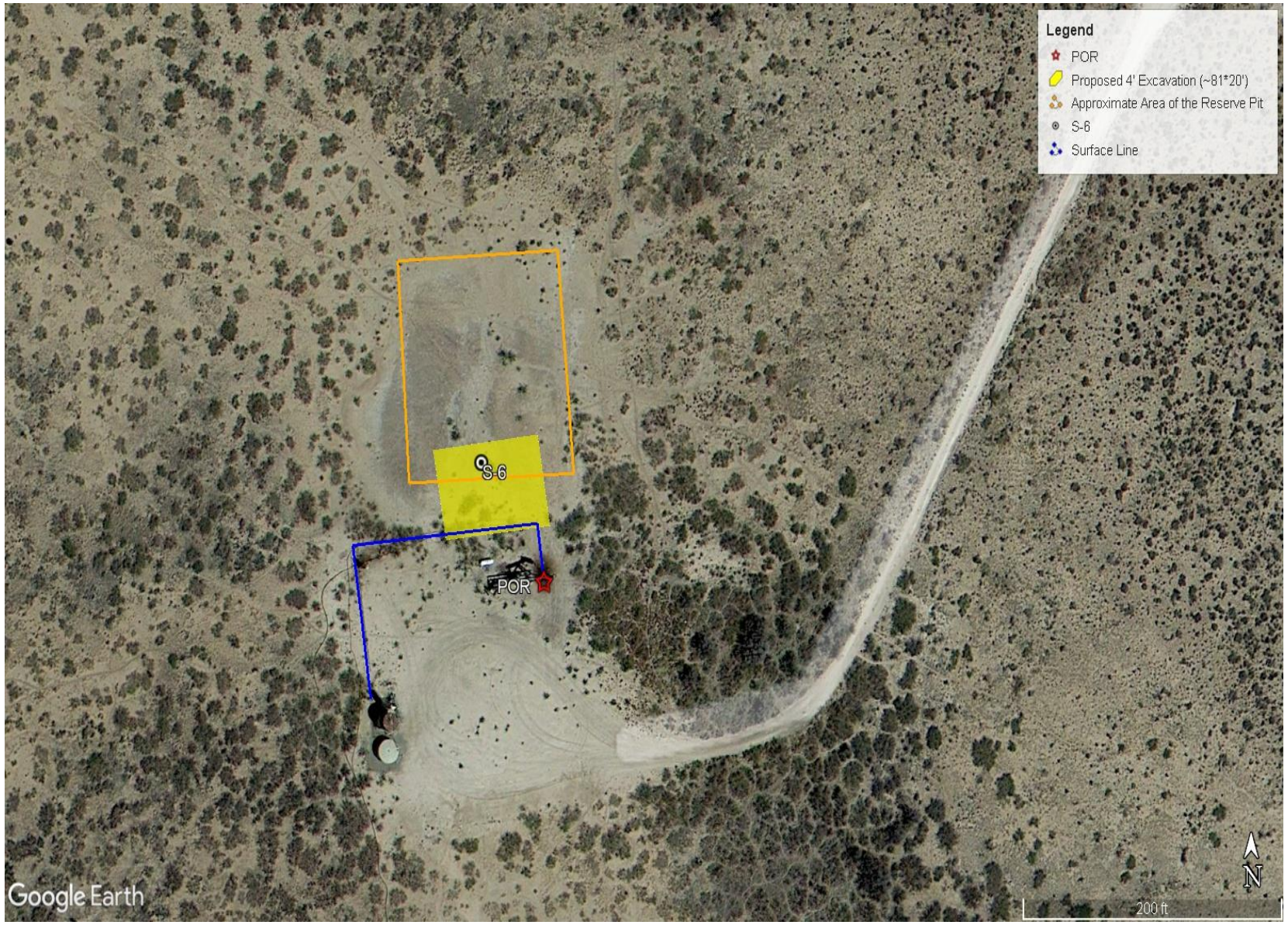
CARMONA RESOURCES



OVERVIEW MAP COG OPERATING FEDERAL 29 Z 002 (07.16.22) EDDY COUNTY, NEW MEXICO 32.5425, -104.3108	CARMONA RESOURCES	FIGURE 1

TOPOGRAPHIC MAP COG OPERATING FEDERAL 29 Z 002 (07.16.22) EDDY COUNTY, NEW MEXICO 32.5425, -104.3108	CARMONA RESOURCES	FIGURE 2

SAMPLE LOCATION MAP COG OPERATING FEDERAL 29 Z 002 (07.16.22) EDDY COUNTY, NEW MEXICO 32.5425, -104.3108	CARMONA RESOURCES	FIGURE 3



PROPOSED EXCAVATION DEPTH MAP COG OPERATING FEDERAL 29 Z 002 (07.16.22) EDDY COUNTY, NEW MEXICO 32.5425, -104.3108	CARMONA RESOURCES	FIGURE 4

APPENDIX A

CARMONA RESOURCES

Table 1
COG
Federal 29 Z #2 (07.16.22)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	9/20/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	12.0
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	33.0
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	60.2
S-2	9/20/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	12.3
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	14.7
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	18.6
	"	2.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	14.0
S-3	9/20/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	18.3
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	19.6
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	16.6
	"	2.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	815
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	161
	"	3.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,090
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,560
T-1	12/9/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	34.0
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	63.9
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	344
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	492
	"	4.0	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	228
	"	5.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	85.6
	"	6.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	177
S-4	9/20/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	18.3
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	19.6
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	16.6
S-5	9/20/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	19.1
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	12.6
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	16.0
S-6	9/20/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**3,860**
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**2,320**
	"	2.0	<50.0	79.1	<50.0	79.1	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**773**
	"	2.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**1,630**
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	**1,540**
	"	3.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**1,170**
	"	4.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	291
	"	4.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	293
Regulatory Criteria [A]						100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

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

Table 1
COG
Federal 29 Z #2 (07.16.22)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
H-1	9/20/2022	0-0.5	<50.0	76.7	<50.0	76.7	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	15.3
H-2	9/20/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	220
H-3	9/20/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	8.83
H-4	9/20/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	11.3
H-5	9/20/2022	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	9.39
H-6	9/20/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	8.84
H-7	9/20/2022	0-0.5	<49.8	99.5	<49.8	99.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	103
Regulatory Criteria [A]						**100 mg/kg**	**10 mg/kg**	-	-	-	**50 mg/kg**	**600 mg/kg**

(-) Not Analyzed

[A] – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(H) Horizontal

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 1

Facility: Federal 29 Z 002H (07.16.22)

County: Eddy County, New Mexico

Description:
View South, area of sample point S-1.

Photograph No. 2

Facility: Federal 29 Z 002H (07.16.22)

County: Eddy County, New Mexico

Description:
View West, areas of sample points S-2 and S-3.

Photograph No. 3

Facility: Federal 29 Z 002H (07.16.22)

County: Eddy County, New Mexico

Description:
View West, areas of sample points S-4 and S-5.

CARMONA RESOURCES

PHOTOGRAPHIC LOG

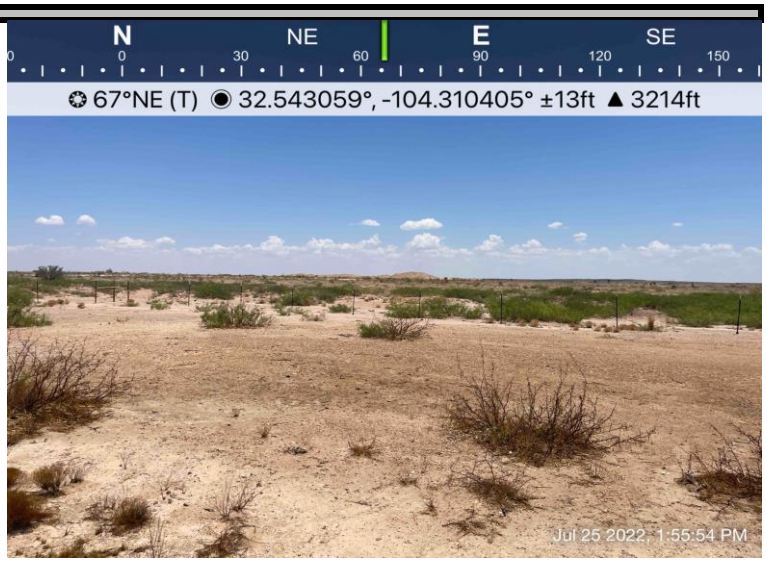
Concho Operating, LLC

Photograph No. 4

Facility: Federal 29 Z 002H (07.16.22)

County: Eddy County, New Mexico

Description:
View Northeast, area of sample point S-6.



Photograph No. 5

Facility: Federal 29 Z 002H (07.16.22)

County: Eddy County, New Mexico

Description:
View East, area of S-3 (Trench-1).

CARMONA RESOURCES

APPENDIX C

CARMONA RESOURCES

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

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

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

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

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

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

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

Printed Name _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: _____

L48 Spill Volume Estimate Form									
Facility Name & Number:	Federal 29 Z #2								
Asset Area:	DBWN								
Release Discovery Date & Time:	7.15.22								
Release Type:	Oil Mixture								
Provide any known details about the event:	Packing Blow out								
Spill Calculation - Subsurface Spill - Rectangle									
Was the release on pad or off-pad?	See reference table below								
Has it rained at least a half inch in the last 24 hours?	See reference table below								
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	180.0	60.0	0.10	10.50%	16.020	1.682	50.00%	0.841	0.841
Rectangle B					0.000	0.000	50.00%	0.000	0.000
Rectangle C					0.000	0.000		0.000	0.000
Rectangle D					0.000	0.000		0.000	0.000
Rectangle E					0.000	0.000		0.000	0.000
Rectangle F					0.000	0.000		0.000	0.000
Rectangle G					0.000	0.000		0.000	0.000
Rectangle H					0.000	0.000		0.000	0.000
Rectangle I					0.000	0.000		0.000	0.000
Rectangle J					0.000	0.000		0.000	0.000
					Total Volume Release:	1.682		0.841	0.841

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

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

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 130057
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	8/1/2022

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature:_____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

APPENDIX D

CARMONA RESOURCES

NEAREST WATER WELL

COG OPERATING

HIGH KARST
COG OPERATING

Legend
- Federal 29 Z #2
- High
- Medium

Brantley Lake State Park

Federal 29 Z #2

Pecos

N

1 mi

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

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

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

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

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 00419	C	CUB	ED	3	3	4	19	20S	27E	563904	3601904*	1391	1813		
RA 03979		RA	ED	1	1	3	21	20S	27E	566306	3602539*	2309	190		
RA 10049		RA	ED	4	3	1	21	20S	27E	566506	3602744*	2595	200		
RA 04764		RA	ED		3	1	21	20S	27E	566407	3602845*	2608	171	150	21
RA 05857		RA	ED	2	2	2	20	20S	27E	566104	3603346*	2861			
C 01182		C	ED	1	1	4	36	20S	26E	562296	3599260*	2921	150	135	15
RA 07841		RA	ED		1	1	21	20S	27E	566408	3603251*	2936	200	140	60

Average Depth to Water: **141 feet**

Minimum Depth: **135 feet**

Maximum Depth: **150 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 564769.94 **Northing (Y):** 3600814.18 **Radius:** 4000

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

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 323229104175401

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

USGS 323229104175401 20S.27E.29.441131

Eddy County, New Mexico
Latitude 32°32'29", Longitude 104°17'54" NAD27
Land-surface elevation 3,199 feet above NAVD88
The depth of the well is 125 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1948-10-06		D	62610		3121.75	NGVD29	1	Z		
1948-10-06		D	62611		3123.30	NAVD88	1	Z		
1948-10-06		D	72019	75.70			1	Z		
1953-03-05		D	62610		3118.79	NGVD29	P	Z		
1953-03-05		D	62611		3120.34	NAVD88	P	Z		
1953-03-05		D	72019	78.66			P	Z		
1953-03-12	21:23 UTC	m	62610		3118.42	NGVD29	P	S	USGS	
1953-03-12	21:23 UTC	m	62611		3119.97	NAVD88	P	S	USGS	
1953-03-12	21:23 UTC	m	72019	79.03			P	S	USGS	
1953-04-03		D	62610		3117.75	NGVD29	1	Z		
1953-04-03		D	62611		3119.30	NAVD88	1	Z		
1953-04-03		D	72019	79.70			1	Z		
1953-06-12		D	62610		3115.87	NGVD29	1	Z		
1953-06-12		D	62611		3117.42	NAVD88	1	Z		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1953-06-12		D	72019	81.58			1	Z		
1953-07-02		D	62610		3115.00	NGVD29	1	Z		
1953-07-02		D	62611		3116.55	NAVD88	1	Z		
1953-07-02		D	72019	82.45			1	Z		
1953-07-17		D	62610		3114.58	NGVD29	1	Z		
1953-07-17		D	62611		3116.13	NAVD88	1	Z		
1953-07-17		D	72019	82.87			1	Z		
1953-08-10		D	62610		3113.91	NGVD29	1	Z		
1953-08-10		D	62611		3115.46	NAVD88	1	Z		
1953-08-10		D	72019	83.54			1	Z		
1953-09-19		D	62610		3114.23	NGVD29	1	Z		
1953-09-19		D	62611		3115.78	NAVD88	1	Z		
1953-09-19		D	72019	83.22			1	Z		
1953-10-31		D	62610		3114.57	NGVD29	1	Z		
1953-10-31		D	62611		3116.12	NAVD88	1	Z		
1953-10-31		D	72019	82.88			1	Z		
1953-11-20		D	62610		3114.65	NGVD29	1	Z		
1953-11-20		D	62611		3116.20	NAVD88	1	Z		
1953-11-20		D	72019	82.80			1	Z		
1953-12-08		D	62610		3114.77	NGVD29	1	Z		
1953-12-08		D	62611		3116.32	NAVD88	1	Z		
1953-12-08		D	72019	82.68			1	Z		
1954-01-18		D	62610		3116.74	NGVD29	1	Z		
1954-01-18		D	62611		3118.29	NAVD88	1	Z		
1954-01-18		D	72019	80.71			1	Z		
1954-03-15		D	62610		3117.63	NGVD29	1	Z		
1954-03-15		D	62611		3119.18	NAVD88	1	Z		
1954-03-15		D	72019	79.82			1	Z		
1954-04-09		D	62610		3116.99	NGVD29	1	Z		
1954-04-09		D	62611		3118.54	NAVD88	1	Z		
1954-04-09		D	72019	80.46			1	Z		
1954-05-28		D	62610		3115.62	NGVD29	1	Z		
1954-05-28		D	62611		3117.17	NAVD88	1	Z		
1954-05-28		D	72019	81.83			1	Z		
1954-06-25		D	62610		3115.07	NGVD29	1	Z		
1954-06-25		D	62611		3116.62	NAVD88	1	Z		
1954-06-25		D	72019	82.38			1	Z		
1954-07-30		D	62610		3113.51	NGVD29	1	Z		
1954-07-30		D	62611		3115.06	NAVD88	1	Z		
1954-07-30		D	72019	83.94			1	Z		
1954-09-28		D	62610		3113.06	NGVD29	1	Z		
1954-09-28		D	62611		3114.61	NAVD88	1	Z		
1954-09-28		D	72019	84.39			1	Z		
1954-10-18		D	62610		3113.87	NGVD29	1	Z		
1954-10-18		D	62611		3115.42	NAVD88	1	Z		
1954-10-18		D	72019	83.58			1	Z		
1954-11-30		D	62610		3116.92	NGVD29	1	Z		
1954-11-30		D	62611		3118.47	NAVD88	1	Z		
1954-11-30		D	72019	80.53			1	Z		
1954-12-31		D	62610		3118.45	NGVD29	1	Z		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1954-12-31		D	62611		3120.00	NAVD88	1	Z		
1954-12-31		D	72019	79.00			1	Z		
1955-01-28		D	62610		3119.38	NGVD29	1	Z		
1955-01-28		D	62611		3120.93	NAVD88	1	Z		
1955-01-28		D	72019	78.07			1	Z		
1955-02-25		D	62610		3119.01	NGVD29	1	Z		
1955-02-25		D	62611		3120.56	NAVD88	1	Z		
1955-02-25		D	72019	78.44			1	Z		
1955-03-12		D	62610		3118.42	NGVD29	1	Z		
1955-03-12		D	62611		3119.97	NAVD88	1	Z		
1955-03-12		D	72019	79.03			1	Z		
1955-03-25		D	62610		3117.95	NGVD29	1	Z		
1955-03-25		D	62611		3119.50	NAVD88	1	Z		
1955-03-25		D	72019	79.50			1	Z		
1955-04-26		D	62610		3117.50	NGVD29	1	Z		
1955-04-26		D	62611		3119.05	NAVD88	1	Z		
1955-04-26		D	72019	79.95			1	Z		
1955-05-24		D	62610		3116.45	NGVD29	1	Z		
1955-05-24		D	62611		3118.00	NAVD88	1	Z		
1955-05-24		D	72019	81.00			1	Z		
1955-06-17		D	62610		3115.42	NGVD29	1	Z		
1955-06-17		D	62611		3116.97	NAVD88	1	Z		
1955-06-17		D	72019	82.03			1	Z		
1955-07-26		D	62610		3113.76	NGVD29	1	Z		
1955-07-26		D	62611		3115.31	NAVD88	1	Z		
1955-07-26		D	72019	83.69			1	Z		
1955-08-30		D	62610		3114.73	NGVD29	1	Z		
1955-08-30		D	62611		3116.28	NAVD88	1	Z		
1955-08-30		D	72019	82.72			1	Z		
1955-09-22		D	62610		3115.31	NGVD29	1	Z		
1955-09-22		D	62611		3116.86	NAVD88	1	Z		
1955-09-22		D	72019	82.14			1	Z		
1955-10-19		D	62610		3117.12	NGVD29	1	Z		
1955-10-19		D	62611		3118.67	NAVD88	1	Z		
1955-10-19		D	72019	80.33			1	Z		
1955-11-23		D	62610		3120.38	NGVD29	1	Z		
1955-11-23		D	62611		3121.93	NAVD88	1	Z		
1955-11-23		D	72019	77.07			1	Z		
1955-12-28		D	62610		3122.85	NGVD29	1	Z		
1955-12-28		D	62611		3124.40	NAVD88	1	Z		
1955-12-28		D	72019	74.60			1	Z		
1956-01-28		D	62610		3123.08	NGVD29	1	Z		
1956-01-28		D	62611		3124.63	NAVD88	1	Z		
1956-01-28		D	72019	74.37			1	Z		
1957-01-24		D	62610		3113.70	NGVD29	P	Z		
1957-01-24		D	62611		3115.25	NAVD88	P	Z		
1957-01-24		D	72019	83.75			P	Z		

Explanation

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

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

Accessibility FOIA Privacy Policies and Notices

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

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2022-08-01 11:27:29 EDT
0.33 0.28 nadww02

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

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- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 323336104173501

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

USGS 323336104173501 20S.27E.21.31112

Eddy County, New Mexico
Latitude 32°33'36", Longitude 104°17'35" NAD27
Land-surface elevation 3,222 feet above NAVD88
The depth of the well is 190 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1961-01-03		D	62610		3109.46	NGVD29	1	Z		
1961-01-03		D	62611		3111.02	NAVD88	1	Z		
1961-01-03		D	72019	110.98			1	Z		
1963-09-04		D	62610		3100.29	NGVD29	1	Z		
1963-09-04		D	62611		3101.85	NAVD88	1	Z		
1963-09-04		D	72019	120.15			1	Z		
1984-02-28		D	62610		3108.53	NGVD29	1	Z		
1984-02-28		D	62611		3110.09	NAVD88	1	Z		
1984-02-28		D	72019	111.91			1	Z		
1989-02-14		D	62610		3110.41	NGVD29	1	Z		
1989-02-14		D	62611		3111.97	NAVD88	1	Z		
1989-02-14		D	72019	110.03			1	Z		
1993-02-10		D	62610		3108.55	NGVD29	1	S		
1993-02-10		D	62611		3110.11	NAVD88	1	S		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1993-02-10		D	72019	111.89			1	S		
1994-02-11		D	62610		3105.41	NGVD29	1	S		
1994-02-11		D	62611		3106.97	NAVD88	1	S		
1994-02-11		D	72019	115.03			1	S		
1999-01-28		D	62610		3105.12	NGVD29	1	S	USGS	
1999-01-28		D	62611		3106.68	NAVD88	1	S	USGS	
1999-01-28		D	72019	115.32			1	S	USGS	
2015-01-12	20:45 UTC	m	62610		3108.31	NGVD29	1	S	NM001	
2015-01-12	20:45 UTC	m	62611		3109.87	NAVD88	1	S	NM001	
2015-01-12	20:45 UTC	m	72019	112.13			1	S	NM001	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	NM001	New Mexico State Engineers Office
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	A	Reported by another government agency (do not use "A" if reported by owner, use "O").
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	RA 04764	3	1		21	20S	27E	566407	3602845*

Driller License:	28	**Driller Company:**	SMITH, A.F.		
Driller Name:	SMITH, A.F.				
Drill Start Date:	02/01/1963	**Drill Finish Date:**	02/02/1963	**Plug Date:**	
Log File Date:	02/21/1963	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	171 feet	**Depth Water:**	150 feet

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

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 01182	1	1	4	36	20S	26E	562296	3599260*

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

Driller Name: BARRON, EMMETT

Drill Start Date:	04/06/1964	**Drill Finish Date:**	04/10/1964	**Plug Date:**	
Log File Date:	05/01/1964	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	7.00	**Depth Well:**	150 feet	**Depth Water:**	135 feet

Water Bearing Stratifications:	Top	Bottom	Description
	140	150	Limestone/Dolomite/Chalk

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

New Mexico NFHL Data

July 29, 2022

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

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

nmflood.org is made possible through a collaboration with NMDHSEM,

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APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-19485-1
Laboratory Sample Delivery Group: Eddy County, New Mexico
Client Project/Site: Federal 29 Z #2

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

Attn: Conner Moehring

JKramer

Authorized for release by:
9/22/2022 12:19:02 PM

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

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

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

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Laboratory Job ID: 880-19485-1
SDG: Eddy County, New Mexico

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Receipt Checklists 70

Definitions/Glossary

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Job ID: 880-19485-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-19485-1

Receipt
The samples were received on 9/21/2022 10:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: S-2 (0-1') (880-19485-4), S-2 (1.5') (880-19485-5), S-2 (2.5') (880-19485-7), S-3 (0-1') (880-19485-8), S-3 (1.5') (880-19485-9), S-3 (2') (880-19485-10), S-3 (2.5') (880-19485-11), S-3 (3') (880-19485-12), S-3 (3.5') (880-19485-13), S-3 (4') (880-19485-14), S-4 (0-1') (880-19485-15), S-4 (1.5') (880-19485-16), S-4 (2') (880-19485-17), S-5 (0-1') (880-19485-18), S-5 (1.5') (880-19485-19), S-5 (2') (880-19485-20), S-6 (0-1') (880-19485-21), S-6 (1.5') (880-19485-22), S-6 (2') (880-19485-23), S-6 (2.5') (880-19485-24), S-6 (3') (880-19485-25), S-6 (3.5') (880-19485-26), S-6 (4') (880-19485-27), S-6 (4.5') (880-19485-28), H-1 (0-0.5') (880-19485-29) and H-2 (0-0.5') (880-19485-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-35061 and analytical batch 880-35073 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: H-3 (0-0.5') (880-19485-31), H-4 (0-0.5') (880-19485-32) and H-5 (0-0.5') (880-19485-33). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: H-7 (0-0.5') (880-19485-35). Evidence of matrix interferences is not obvious.

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

GC Semi VOA
Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-35098 and analytical batch 880-35005 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-35103 and analytical batch 880-35007 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-4 (0-0.5') (880-19485-32) and H-5 (0-0.5') (880-19485-33). 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 880-35064, 880-35064 and 880-35064 and analytical batch 880-35115 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-35063 and 880-35063 and analytical batch 880-35114 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.

Case Narrative

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Job ID: 880-19485-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-19485-1
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/21/22 17:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/21/22 17:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/21/22 17:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/21/22 12:57	09/21/22 17:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/21/22 17:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/21/22 12:57	09/21/22 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*09/21/22 12:57*	*09/21/22 17:17*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*09/21/22 12:57*	*09/21/22 17:17*	*1*

Method: 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			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/21/22 15:28	09/21/22 20:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/21/22 20:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/21/22 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*09/21/22 15:28*	*09/21/22 20:49*	*1*
o-Terphenyl	*108*		*70 - 130*	*09/21/22 15:28*	*09/21/22 20:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.0**		4.96		mg/Kg			09/22/22 01:23	1

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-19485-2
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 17:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 17:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 17:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/21/22 12:57	09/21/22 17:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 17:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/21/22 12:57	09/21/22 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*09/21/22 12:57*	*09/21/22 17:38*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*09/21/22 12:57*	*09/21/22 17:38*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-19485-2
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/21/22 15:28	09/21/22 21:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/21/22 21:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/21/22 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*09/21/22 15:28*	*09/21/22 21:53*	*1*
o-Terphenyl	*86*		*70 - 130*	*09/21/22 15:28*	*09/21/22 21:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.0**		5.02		mg/Kg			09/22/22 01:38	1

Client Sample ID: S-1 (2')

Lab Sample ID: 880-19485-3
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/21/22 12:57	09/21/22 17:58	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/21/22 12:57	09/21/22 17:58	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/21/22 12:57	09/21/22 17:58	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/21/22 12:57	09/21/22 17:58	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/21/22 12:57	09/21/22 17:58	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/21/22 12:57	09/21/22 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*09/21/22 12:57*	*09/21/22 17:58*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*09/21/22 12:57*	*09/21/22 17:58*	*1*

Method: 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			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		09/21/22 15:28	09/21/22 22:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 15:28	09/21/22 22:15	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (2')

Lab Sample ID: 880-19485-3
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:28	09/21/22 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*09/21/22 15:28*	*09/21/22 22:15*	*1*
o-Terphenyl	*92*		*70 - 130*	*09/21/22 15:28*	*09/21/22 22:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.2**		5.05		mg/Kg			09/22/22 01:43	1

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

Lab Sample ID: 880-19485-4
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/21/22 18:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/21/22 18:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/21/22 18:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/21/22 12:57	09/21/22 18:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/21/22 18:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/21/22 12:57	09/21/22 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*09/21/22 12:57*	*09/21/22 18:19*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*09/21/22 12:57*	*09/21/22 18:19*	*1*

Method: 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			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/21/22 15:28	09/21/22 22:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/21/22 22:37	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/21/22 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*09/21/22 15:28*	*09/21/22 22:37*	*1*
o-Terphenyl	*105*		*70 - 130*	*09/21/22 15:28*	*09/21/22 22:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.3**		5.05		mg/Kg			09/22/22 01:47	1

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-19485-5
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 18:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 18:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 18:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/21/22 12:57	09/21/22 18:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 18:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/21/22 12:57	09/21/22 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*09/21/22 12:57*	*09/21/22 18:40*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*09/21/22 12:57*	*09/21/22 18:40*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		09/21/22 15:28	09/21/22 22:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 15:28	09/21/22 22:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:28	09/21/22 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*09/21/22 15:28*	*09/21/22 22:58*	*1*
o-Terphenyl	*110*		*70 - 130*	*09/21/22 15:28*	*09/21/22 22:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.7**		5.01		mg/Kg			09/22/22 01:52	1

Client Sample ID: S-2 (2')

Lab Sample ID: 880-19485-6
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 19:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 19:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 19:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/21/22 12:57	09/21/22 19:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 19:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/21/22 12:57	09/21/22 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*09/21/22 12:57*	*09/21/22 19:01*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*09/21/22 12:57*	*09/21/22 19:01*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (2')

Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-6
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		09/21/22 15:28	09/21/22 23:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 15:28	09/21/22 23:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:28	09/21/22 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*09/21/22 15:28*	*09/21/22 23:20*	*1*
o-Terphenyl	*105*		*70 - 130*	*09/21/22 15:28*	*09/21/22 23:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.6**		4.97		mg/Kg			09/22/22 02:07	1

Client Sample ID: S-2 (2.5')

Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-7
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 19:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 19:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 19:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/21/22 12:57	09/21/22 19:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 19:21	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/21/22 12:57	09/21/22 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*09/21/22 12:57*	*09/21/22 19:21*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*09/21/22 12:57*	*09/21/22 19:21*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		09/21/22 15:28	09/21/22 23:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/21/22 15:28	09/21/22 23:41	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (2.5')

Lab Sample ID: 880-19485-7
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/21/22 15:28	09/21/22 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*09/21/22 15:28*	*09/21/22 23:41*	*1*
o-Terphenyl	*108*		*70 - 130*	*09/21/22 15:28*	*09/21/22 23:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.0**	**F1 F2**	4.97		mg/Kg			09/22/22 00:46	1

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

Lab Sample ID: 880-19485-8
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 19:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 19:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 19:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/21/22 12:57	09/21/22 19:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 19:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/21/22 12:57	09/21/22 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*09/21/22 12:57*	*09/21/22 19:42*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*09/21/22 12:57*	*09/21/22 19:42*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/21/22 15:28	09/22/22 00:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/22/22 00:02	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/22/22 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*09/21/22 15:28*	*09/22/22 00:02*	*1*
o-Terphenyl	*96*		*70 - 130*	*09/21/22 15:28*	*09/22/22 00:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43.1**		4.99		mg/Kg			09/22/22 01:01	1

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-19485-9
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 20:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 20:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 20:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/21/22 12:57	09/21/22 20:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 20:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/21/22 12:57	09/21/22 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*	*09/21/22 12:57*	*09/21/22 20:03*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*09/21/22 12:57*	*09/21/22 20:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/21/22 15:28	09/22/22 00:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/22/22 00:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/22/22 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*09/21/22 15:28*	*09/22/22 00:23*	*1*
o-Terphenyl	*105*		*70 - 130*	*09/21/22 15:28*	*09/22/22 00:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59.7**		5.00		mg/Kg			09/22/22 01:06	1

Client Sample ID: S-3 (2')

Lab Sample ID: 880-19485-10
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 20:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 20:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 20:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/21/22 12:57	09/21/22 20:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 20:23	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/21/22 12:57	09/21/22 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*	*09/21/22 12:57*	*09/21/22 20:23*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*09/21/22 12:57*	*09/21/22 20:23*	*1*

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Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (2')

Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-10
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/21/22 15:28	09/22/22 00:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/22/22 00:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/22/22 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*09/21/22 15:28*	*09/22/22 00:44*	*1*
o-Terphenyl	*96*		*70 - 130*	*09/21/22 15:28*	*09/22/22 00:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		5.00		mg/Kg			09/22/22 01:10	1

Client Sample ID: S-3 (2.5')

Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-11
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 21:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 21:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 21:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/21/22 12:57	09/21/22 21:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 21:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/21/22 12:57	09/21/22 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*	*09/21/22 12:57*	*09/21/22 21:48*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*09/21/22 12:57*	*09/21/22 21:48*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		09/21/22 15:28	09/22/22 01:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 15:28	09/22/22 01:26	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (2.5')

Lab Sample ID: 880-19485-11
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:28	09/22/22 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*09/21/22 15:28*	*09/22/22 01:26*	*1*
o-Terphenyl	*92*		*70 - 130*	*09/21/22 15:28*	*09/22/22 01:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**815**		4.99		mg/Kg			09/22/22 01:15	1

Client Sample ID: S-3 (3')

Lab Sample ID: 880-19485-12
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 22:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 22:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 22:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/21/22 12:57	09/21/22 22:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 22:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/21/22 12:57	09/21/22 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*167*	*S1+*	*70 - 130*	*09/21/22 12:57*	*09/21/22 22:08*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*09/21/22 12:57*	*09/21/22 22:08*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/21/22 15:28	09/22/22 01:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/22/22 01:47	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/22/22 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*09/21/22 15:28*	*09/22/22 01:47*	*1*
o-Terphenyl	*101*		*70 - 130*	*09/21/22 15:28*	*09/22/22 01:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**161**		4.96		mg/Kg			09/22/22 01:30	1

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (3.5')

Lab Sample ID: 880-19485-13
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 22:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 22:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 22:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/21/22 12:57	09/21/22 22:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/21/22 22:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/21/22 12:57	09/21/22 22:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*160*	*S1+*	*70 - 130*	*09/21/22 12:57*	*09/21/22 22:29*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*09/21/22 12:57*	*09/21/22 22:29*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		09/21/22 15:28	09/22/22 02:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 15:28	09/22/22 02:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:28	09/22/22 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*09/21/22 15:28*	*09/22/22 02:08*	*1*
o-Terphenyl	*93*		*70 - 130*	*09/21/22 15:28*	*09/22/22 02:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1090**		4.95		mg/Kg			09/22/22 01:35	1

Client Sample ID: S-3 (4')

Lab Sample ID: 880-19485-14
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/21/22 22:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/21/22 22:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/21/22 22:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/21/22 12:57	09/21/22 22:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/21/22 22:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/21/22 12:57	09/21/22 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*156*	*S1+*	*70 - 130*	*09/21/22 12:57*	*09/21/22 22:50*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*09/21/22 12:57*	*09/21/22 22:50*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (4')

Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-14
Matrix: Solid

Method: 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			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		09/21/22 15:28	09/22/22 02:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 15:28	09/22/22 02:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:28	09/22/22 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*09/21/22 15:28*	*09/22/22 02:30*	*1*
o-Terphenyl	*95*		*70 - 130*	*09/21/22 15:28*	*09/22/22 02:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1560**		24.8		mg/Kg			09/22/22 01:40	5

Client Sample ID: S-4 (0-1')

Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-15
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 23:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 23:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 23:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/21/22 12:57	09/21/22 23:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 23:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/21/22 12:57	09/21/22 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*159*	*S1+*	*70 - 130*	*09/21/22 12:57*	*09/21/22 23:11*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*09/21/22 12:57*	*09/21/22 23:11*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/21/22 15:28	09/22/22 02:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/22/22 02:51	1

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-4 (0-1')

Lab Sample ID: 880-19485-15
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/22/22 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*09/21/22 15:28*	*09/22/22 02:51*	*1*
o-Terphenyl	*97*		*70 - 130*	*09/21/22 15:28*	*09/22/22 02:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.3**		5.02		mg/Kg			09/22/22 01:45	1

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-19485-16
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/21/22 23:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/21/22 23:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/21/22 23:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/21/22 12:57	09/21/22 23:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/21/22 23:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/21/22 12:57	09/21/22 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*161*	*S1+*	*70 - 130*	*09/21/22 12:57*	*09/21/22 23:31*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*09/21/22 12:57*	*09/21/22 23:31*	*1*

Method: 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			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/21/22 15:28	09/22/22 03:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/22/22 03:11	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/22/22 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*09/21/22 15:28*	*09/22/22 03:11*	*1*
o-Terphenyl	*102*		*70 - 130*	*09/21/22 15:28*	*09/22/22 03:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.6**		5.01		mg/Kg			09/22/22 01:50	1

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-4 (2')

Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-17
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 23:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 23:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 23:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/21/22 12:57	09/21/22 23:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 23:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/21/22 12:57	09/21/22 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*161*	*S1+*	*70 - 130*	*09/21/22 12:57*	*09/21/22 23:52*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*09/21/22 12:57*	*09/21/22 23:52*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		09/21/22 15:28	09/22/22 03:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 15:28	09/22/22 03:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:28	09/22/22 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*09/21/22 15:28*	*09/22/22 03:32*	*1*
o-Terphenyl	*99*		*70 - 130*	*09/21/22 15:28*	*09/22/22 03:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.6**		5.03		mg/Kg			09/22/22 01:55	1

Client Sample ID: S-5 (0-1')

Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-18
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/22/22 00:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/22/22 00:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/22/22 00:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/21/22 12:57	09/22/22 00:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/22/22 00:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/21/22 12:57	09/22/22 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*170*	*S1+*	*70 - 130*	*09/21/22 12:57*	*09/22/22 00:13*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*09/21/22 12:57*	*09/22/22 00:13*	*1*

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-5 (0-1')

Lab Sample ID: 880-19485-18
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/21/22 15:28	09/22/22 03:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/22/22 03:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:28	09/22/22 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*09/21/22 15:28*	*09/22/22 03:53*	*1*
o-Terphenyl	*98*		*70 - 130*	*09/21/22 15:28*	*09/22/22 03:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.1**		4.97		mg/Kg			09/22/22 02:10	1

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-19485-19
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/22/22 00:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/22/22 00:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/22/22 00:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/21/22 12:57	09/22/22 00:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/21/22 12:57	09/22/22 00:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/21/22 12:57	09/22/22 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*157*	*S1+*	*70 - 130*	*09/21/22 12:57*	*09/22/22 00:33*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*09/21/22 12:57*	*09/22/22 00:33*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		09/21/22 15:29	09/22/22 04:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 15:29	09/22/22 04:14	1

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-19485-19
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:29	09/22/22 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*09/21/22 15:29*	*09/22/22 04:14*	*1*
o-Terphenyl	*90*		*70 - 130*	*09/21/22 15:29*	*09/22/22 04:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.6**		4.96		mg/Kg			09/22/22 02:15	1

Client Sample ID: S-5 (2')

Lab Sample ID: 880-19485-20
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/22/22 00:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/22/22 00:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/22/22 00:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/21/22 12:57	09/22/22 00:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/21/22 12:57	09/22/22 00:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/21/22 12:57	09/22/22 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*172*	*S1+*	*70 - 130*	*09/21/22 12:57*	*09/22/22 00:54*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*09/21/22 12:57*	*09/22/22 00:54*	*1*

Method: 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			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/22/22 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/21/22 15:29	09/22/22 04:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 15:29	09/22/22 04:35	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:29	09/22/22 04:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*09/21/22 15:29*	*09/22/22 04:35*	*1*
o-Terphenyl	*102*		*70 - 130*	*09/21/22 15:29*	*09/22/22 04:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.0**		5.01		mg/Kg			09/22/22 02:30	1

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-6 (0-1')

Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-21
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		09/21/22 13:04	09/22/22 03:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 03:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 03:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/21/22 13:04	09/22/22 03:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 03:58	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/21/22 13:04	09/22/22 03:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*09/21/22 13:04*	*09/22/22 03:58*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*09/21/22 13:04*	*09/22/22 03:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/22/22 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/21/22 20:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/21/22 20:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/21/22 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*09/21/22 15:33*	*09/21/22 20:49*	*1*
o-Terphenyl	*121*		*70 - 130*	*09/21/22 15:33*	*09/21/22 20:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3860**		49.9		mg/Kg			09/22/22 02:35	10

Client Sample ID: S-6 (1.5')

Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-22
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 04:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 04:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 04:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/21/22 13:04	09/22/22 04:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 04:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/21/22 13:04	09/22/22 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*169*	*S1+*	*70 - 130*	*09/21/22 13:04*	*09/22/22 04:19*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*09/21/22 13:04*	*09/22/22 04:19*	*1*

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Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-6 (1.5')

Lab Sample ID: 880-19485-22
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/22/22 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/21/22 21:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/21/22 21:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/21/22 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*09/21/22 15:33*	*09/21/22 21:53*	*1*
o-Terphenyl	*112*		*70 - 130*	*09/21/22 15:33*	*09/21/22 21:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2320**		25.2		mg/Kg			09/22/22 02:40	5

Client Sample ID: S-6 (2')

Lab Sample ID: 880-19485-23
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/21/22 13:04	09/22/22 04:40	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/21/22 13:04	09/22/22 04:40	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/21/22 13:04	09/22/22 04:40	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/21/22 13:04	09/22/22 04:40	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/21/22 13:04	09/22/22 04:40	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/21/22 13:04	09/22/22 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*	*09/21/22 13:04*	*09/22/22 04:40*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*09/21/22 13:04*	*09/22/22 04:40*	*1*

Method: 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			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**79.1**		50.0		mg/Kg			09/22/22 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/21/22 22:15	1
Diesel Range Organics (Over C10-C28)	**79.1**		50.0		mg/Kg		09/21/22 15:33	09/21/22 22:15	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-6 (2')

Lab Sample ID: 880-19485-23
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/21/22 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*09/21/22 15:33*	*09/21/22 22:15*	*1*
o-Terphenyl	*109*		*70 - 130*	*09/21/22 15:33*	*09/21/22 22:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**773**		25.3		mg/Kg			09/22/22 02:45	5

Client Sample ID: S-6 (2.5')

Lab Sample ID: 880-19485-24
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/21/22 13:04	09/22/22 05:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/21/22 13:04	09/22/22 05:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/21/22 13:04	09/22/22 05:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/21/22 13:04	09/22/22 05:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/21/22 13:04	09/22/22 05:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/21/22 13:04	09/22/22 05:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*177*	*S1+*	*70 - 130*	*09/21/22 13:04*	*09/22/22 05:00*	*1*
1,4-Difluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*09/21/22 13:04*	*09/22/22 05:00*	*1*

Method: 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			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/22/22 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/21/22 22:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/21/22 22:37	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/21/22 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*09/21/22 15:33*	*09/21/22 22:37*	*1*
o-Terphenyl	*107*		*70 - 130*	*09/21/22 15:33*	*09/21/22 22:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1630**		25.0		mg/Kg			09/22/22 02:50	5

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-6 (3')

Lab Sample ID: 880-19485-25
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/21/22 13:04	09/22/22 05:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/21/22 13:04	09/22/22 05:21	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/21/22 13:04	09/22/22 05:21	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/21/22 13:04	09/22/22 05:21	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/21/22 13:04	09/22/22 05:21	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/21/22 13:04	09/22/22 05:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*	*09/21/22 13:04*	*09/22/22 05:21*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*09/21/22 13:04*	*09/22/22 05:21*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/22/22 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/21/22 22:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/21/22 22:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/21/22 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*09/21/22 15:33*	*09/21/22 22:58*	*1*
o-Terphenyl	*123*		*70 - 130*	*09/21/22 15:33*	*09/21/22 22:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1540**		25.0		mg/Kg			09/22/22 02:55	5

Client Sample ID: S-6 (3.5')

Lab Sample ID: 880-19485-26
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 05:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 05:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 05:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/21/22 13:04	09/22/22 05:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 05:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/21/22 13:04	09/22/22 05:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*169*	*S1+*	*70 - 130*	*09/21/22 13:04*	*09/22/22 05:41*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*09/21/22 13:04*	*09/22/22 05:41*	*1*

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-6 (3.5')

Lab Sample ID: 880-19485-26
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/22/22 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/21/22 23:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/21/22 23:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/21/22 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*09/21/22 15:33*	*09/21/22 23:20*	*1*
o-Terphenyl	*114*		*70 - 130*	*09/21/22 15:33*	*09/21/22 23:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1170**		25.0		mg/Kg			09/22/22 03:00	5

Client Sample ID: S-6 (4')

Lab Sample ID: 880-19485-27
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/21/22 13:04	09/22/22 06:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/21/22 13:04	09/22/22 06:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/21/22 13:04	09/22/22 06:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/21/22 13:04	09/22/22 06:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/21/22 13:04	09/22/22 06:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/21/22 13:04	09/22/22 06:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*179*	*S1+*	*70 - 130*	*09/21/22 13:04*	*09/22/22 06:02*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*09/21/22 13:04*	*09/22/22 06:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/22/22 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/21/22 15:33	09/21/22 23:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/21/22 15:33	09/21/22 23:41	1

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-6 (4')

Lab Sample ID: 880-19485-27
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/21/22 15:33	09/21/22 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*09/21/22 15:33*	*09/21/22 23:41*	*1*
o-Terphenyl	*103*		*70 - 130*	*09/21/22 15:33*	*09/21/22 23:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**291**	**F1**	5.01		mg/Kg			09/21/22 20:13	1

Client Sample ID: S-6 (4.5')

Lab Sample ID: 880-19485-28
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 06:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 06:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 06:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/21/22 13:04	09/22/22 06:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 06:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/21/22 13:04	09/22/22 06:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*173*	*S1+*	*70 - 130*	*09/21/22 13:04*	*09/22/22 06:23*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*09/21/22 13:04*	*09/22/22 06:23*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/22/22 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 00:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 00:02	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*09/21/22 15:33*	*09/22/22 00:02*	*1*
o-Terphenyl	*122*		*70 - 130*	*09/21/22 15:33*	*09/22/22 00:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**293**		4.98		mg/Kg			09/21/22 20:28	1

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-19485-29
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/21/22 13:04	09/22/22 06:43	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/21/22 13:04	09/22/22 06:43	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/21/22 13:04	09/22/22 06:43	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/21/22 13:04	09/22/22 06:43	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/21/22 13:04	09/22/22 06:43	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/21/22 13:04	09/22/22 06:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*166*	*S1+*	*70 - 130*	*09/21/22 13:04*	*09/22/22 06:43*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*09/21/22 13:04*	*09/22/22 06:43*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**76.7**		50.0		mg/Kg			09/22/22 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/22/22 00:23	1
Diesel Range Organics (Over C10-C28)	**76.7**		50.0		mg/Kg		09/21/22 15:33	09/22/22 00:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/22/22 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*09/21/22 15:33*	*09/22/22 00:23*	*1*
o-Terphenyl	*119*		*70 - 130*	*09/21/22 15:33*	*09/22/22 00:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.3**		5.00		mg/Kg			09/21/22 20:33	1

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

Lab Sample ID: 880-19485-30
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/21/22 13:04	09/22/22 07:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/21/22 13:04	09/22/22 07:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/21/22 13:04	09/22/22 07:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/21/22 13:04	09/22/22 07:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/21/22 13:04	09/22/22 07:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/21/22 13:04	09/22/22 07:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*176*	*S1+*	*70 - 130*	*09/21/22 13:04*	*09/22/22 07:04*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*09/21/22 13:04*	*09/22/22 07:04*	*1*

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Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-19485-30
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 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			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/22/22 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 00:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 00:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*09/21/22 15:33*	*09/22/22 00:44*	*1*
o-Terphenyl	*114*		*70 - 130*	*09/21/22 15:33*	*09/22/22 00:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**220**		4.96		mg/Kg			09/21/22 20:38	1

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

Lab Sample ID: 880-19485-31
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/21/22 13:04	09/22/22 09:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/21/22 13:04	09/22/22 09:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/21/22 13:04	09/22/22 09:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/21/22 13:04	09/22/22 09:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/21/22 13:04	09/22/22 09:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/21/22 13:04	09/22/22 09:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*09/21/22 13:04*	*09/22/22 09:13*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*09/21/22 13:04*	*09/22/22 09:13*	*1*

Method: 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			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/22/22 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/22/22 01:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/22/22 01:26	1

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

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

Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-31
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/22/22 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*09/21/22 15:33*	*09/22/22 01:26*	*1*
o-Terphenyl	*123*		*70 - 130*	*09/21/22 15:33*	*09/22/22 01:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.83**		5.02		mg/Kg			09/21/22 20:43	1

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

Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-32
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 09:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 09:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 09:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/21/22 13:04	09/22/22 09:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 09:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/21/22 13:04	09/22/22 09:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*	*09/21/22 13:04*	*09/22/22 09:34*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*09/21/22 13:04*	*09/22/22 09:34*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/22/22 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 01:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 01:47	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*09/21/22 15:33*	*09/22/22 01:47*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*09/21/22 15:33*	*09/22/22 01:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.3**		5.04		mg/Kg			09/21/22 20:58	1

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: H-5 (0-0.5')

Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-33
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/21/22 13:04	09/22/22 09:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/21/22 13:04	09/22/22 09:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/21/22 13:04	09/22/22 09:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/21/22 13:04	09/22/22 09:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/21/22 13:04	09/22/22 09:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/21/22 13:04	09/22/22 09:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*183*	*S1+*	*70 - 130*	*09/21/22 13:04*	*09/22/22 09:54*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*09/21/22 13:04*	*09/22/22 09:54*	*1*

Method: 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			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/22/22 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/21/22 15:33	09/22/22 02:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/21/22 15:33	09/22/22 02:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/21/22 15:33	09/22/22 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*09/21/22 15:33*	*09/22/22 02:08*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*09/21/22 15:33*	*09/22/22 02:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.39**		5.04		mg/Kg			09/21/22 21:03	1

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

Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-34
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 10:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 10:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 10:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/21/22 13:04	09/22/22 10:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 10:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/21/22 13:04	09/22/22 10:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*09/21/22 13:04*	*09/22/22 10:15*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*09/21/22 13:04*	*09/22/22 10:15*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-19485-34
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/22/22 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/22/22 02:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/22/22 02:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/22/22 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*09/21/22 15:33*	*09/22/22 02:30*	*1*
o-Terphenyl	*119*		*70 - 130*	*09/21/22 15:33*	*09/22/22 02:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.84**		4.97		mg/Kg			09/21/22 21:08	1

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-19485-35
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/21/22 13:04	09/22/22 10:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/21/22 13:04	09/22/22 10:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/21/22 13:04	09/22/22 10:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/21/22 13:04	09/22/22 10:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/21/22 13:04	09/22/22 10:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/21/22 13:04	09/22/22 10:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*159*	*S1+*	*70 - 130*	*09/21/22 13:04*	*09/22/22 10:36*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*09/21/22 13:04*	*09/22/22 10:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/22/22 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**99.5**		49.8		mg/Kg			09/22/22 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/21/22 15:33	09/22/22 02:51	1
Diesel Range Organics (Over C10-C28)	**99.5**		49.8		mg/Kg		09/21/22 15:33	09/22/22 02:51	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: H-7 (0-0.5')
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-35
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/21/22 15:33	09/22/22 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*09/21/22 15:33*	*09/22/22 02:51*	*1*
o-Terphenyl	*113*		*70 - 130*	*09/21/22 15:33*	*09/22/22 02:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**103**		4.95		mg/Kg			09/21/22 21:13	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-19485-1	S-1 (0-1')	117	108
880-19485-1 MS	S-1 (0-1')	123	110
880-19485-1 MSD	S-1 (0-1')	118	105
880-19485-2	S-1 (1.5')	117	110
880-19485-3	S-1 (2')	131 S1+	95
880-19485-4	S-2 (0-1')	141 S1+	108
880-19485-5	S-2 (1.5')	138 S1+	94
880-19485-6	S-2 (2')	130	111
880-19485-7	S-2 (2.5')	145 S1+	113
880-19485-8	S-3 (0-1')	145 S1+	115
880-19485-9	S-3 (1.5')	151 S1+	114
880-19485-10	S-3 (2')	147 S1+	113
880-19485-11	S-3 (2.5')	146 S1+	113
880-19485-12	S-3 (3')	167 S1+	120
880-19485-13	S-3 (3.5')	160 S1+	111
880-19485-14	S-3 (4')	156 S1+	116
880-19485-15	S-4 (0-1')	159 S1+	119
880-19485-16	S-4 (1.5')	161 S1+	117
880-19485-17	S-4 (2')	161 S1+	118
880-19485-18	S-5 (0-1')	170 S1+	115
880-19485-19	S-5 (1.5')	157 S1+	115
880-19485-20	S-5 (2')	172 S1+	117
880-19485-21	S-6 (0-1')	139 S1+	112
880-19485-21 MS	S-6 (0-1')	140 S1+	109
880-19485-21 MSD	S-6 (0-1')	135 S1+	108
880-19485-22	S-6 (1.5')	169 S1+	115
880-19485-23	S-6 (2')	146 S1+	118
880-19485-24	S-6 (2.5')	177 S1+	132 S1+
880-19485-25	S-6 (3')	151 S1+	115
880-19485-26	S-6 (3.5')	169 S1+	123
880-19485-27	S-6 (4')	179 S1+	122
880-19485-28	S-6 (4.5')	173 S1+	123
880-19485-29	H-1 (0-0.5')	166 S1+	117
880-19485-30	H-2 (0-0.5')	176 S1+	117
880-19485-31	H-3 (0-0.5')	139 S1+	111
880-19485-32	H-4 (0-0.5')	148 S1+	116
880-19485-33	H-5 (0-0.5')	183 S1+	117
880-19485-34	H-6 (0-0.5')	121	109
880-19485-35	H-7 (0-0.5')	159 S1+	120
LCS 880-35060/1-A	Lab Control Sample	116	103
LCS 880-35061/1-A	Lab Control Sample	130	117
LCSD 880-35060/2-A	Lab Control Sample Dup	113	108
LCSD 880-35061/2-A	Lab Control Sample Dup	154 S1+	121
MB 880-35060/5-A	Method Blank	86	106
MB 880-35061/5-A	Method Blank	112	106

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
880-19485-1	S-1 (0-1')	115	108
880-19485-1 MS	S-1 (0-1')	95	88
880-19485-1 MSD	S-1 (0-1')	87	80
880-19485-2	S-1 (1.5')	89	86
880-19485-3	S-1 (2')	95	92
880-19485-4	S-2 (0-1')	110	105
880-19485-5	S-2 (1.5')	113	110
880-19485-6	S-2 (2')	112	105
880-19485-7	S-2 (2.5')	114	108
880-19485-8	S-3 (0-1')	101	96
880-19485-9	S-3 (1.5')	106	105
880-19485-10	S-3 (2')	105	96
880-19485-11	S-3 (2.5')	102	92
880-19485-12	S-3 (3')	108	101
880-19485-13	S-3 (3.5')	101	93
880-19485-14	S-3 (4')	106	95
880-19485-15	S-4 (0-1')	110	97
880-19485-16	S-4 (1.5')	111	102
880-19485-17	S-4 (2')	107	99
880-19485-18	S-5 (0-1')	101	98
880-19485-19	S-5 (1.5')	95	90
880-19485-20	S-5 (2')	104	102
880-19485-21	S-6 (0-1')	103	121
880-19485-21 MS	S-6 (0-1')	97	102
880-19485-21 MSD	S-6 (0-1')	97	101
880-19485-22	S-6 (1.5')	97	112
880-19485-23	S-6 (2')	95	109
880-19485-24	S-6 (2.5')	94	107
880-19485-25	S-6 (3')	108	123
880-19485-26	S-6 (3.5')	99	114
880-19485-27	S-6 (4')	90	103
880-19485-28	S-6 (4.5')	105	122
880-19485-29	H-1 (0-0.5')	106	119
880-19485-30	H-2 (0-0.5')	101	114
880-19485-31	H-3 (0-0.5')	107	123
880-19485-32	H-4 (0-0.5')	125	140 S1+
880-19485-33	H-5 (0-0.5')	124	136 S1+
880-19485-34	H-6 (0-0.5')	106	119
880-19485-35	H-7 (0-0.5')	101	113
LCS 880-35098/2-A	Lab Control Sample	88	88
LCS 880-35103/2-A	Lab Control Sample	91	99
LCSD 880-35098/3-A	Lab Control Sample Dup	105	102
LCSD 880-35103/3-A	Lab Control Sample Dup	93	105
MB 880-35098/1-A	Method Blank	118	111
MB 880-35103/1-A	Method Blank	116	134 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35060/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35073 — **Prep Batch: 35060**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 16:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 16:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 16:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/21/22 12:57	09/21/22 16:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/22 12:57	09/21/22 16:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/21/22 12:57	09/21/22 16:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*09/21/22 12:57*	*09/21/22 16:55*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*09/21/22 12:57*	*09/21/22 16:55*	*1*

Lab Sample ID: LCS 880-35060/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35073 — **Prep Batch: 35060**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1016		mg/Kg		102	70 - 130
Toluene	0.100	0.1031		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2172		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1057		mg/Kg		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-35060/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35073 — **Prep Batch: 35060**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1098		mg/Kg		110	70 - 130	8	35
Toluene	0.100	0.1100		mg/Kg		110	70 - 130	6	35
Ethylbenzene	0.100	0.1035		mg/Kg		103	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2207		mg/Kg		110	70 - 130	2	35
o-Xylene	0.100	0.1075		mg/Kg		108	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 880-19485-1 MS — **Client Sample ID: S-1 (0-1')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35073 — **Prep Batch: 35060**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09328		mg/Kg		93	70 - 130
Toluene	<0.00201	U	0.100	0.09091		mg/Kg		91	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-19485-1 MS
Matrix: Solid
Analysis Batch: 35073

Client Sample ID: S-1 (0-1')
Prep Type: Total/NA
Prep Batch: 35060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.08587		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1887		mg/Kg		94	70 - 130
o-Xylene	<0.00201	U	0.100	0.09383		mg/Kg		93	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 880-19485-1 MSD
Matrix: Solid
Analysis Batch: 35073

Client Sample ID: S-1 (0-1')
Prep Type: Total/NA
Prep Batch: 35060

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.08358		mg/Kg		84	70 - 130	11	35
Toluene	<0.00201	U	0.0998	0.08557		mg/Kg		86	70 - 130	6	35
Ethylbenzene	<0.00201	U	0.0998	0.08223		mg/Kg		82	70 - 130	4	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1829		mg/Kg		92	70 - 130	3	35
o-Xylene	<0.00201	U	0.0998	0.08905		mg/Kg		89	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 880-35061/5-A
Matrix: Solid
Analysis Batch: 35073

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35061

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 03:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 03:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 03:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/21/22 13:04	09/22/22 03:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/22 13:04	09/22/22 03:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/21/22 13:04	09/22/22 03:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*09/21/22 13:04*	*09/22/22 03:37*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*09/21/22 13:04*	*09/22/22 03:37*	*1*

Lab Sample ID: LCS 880-35061/1-A
Matrix: Solid
Analysis Batch: 35073

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35061

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07370		mg/Kg		74	70 - 130
Toluene	0.100	0.07810		mg/Kg		78	70 - 130
Ethylbenzene	0.100	0.08578		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1910		mg/Kg		96	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-35061/1-A
Matrix: Solid
Analysis Batch: 35073

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35061

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09680		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

Lab Sample ID: LCSD 880-35061/2-A
Matrix: Solid
Analysis Batch: 35073

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35061

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08829		mg/Kg		88	70 - 130	18	35
Toluene			0.100	0.09815		mg/Kg		98	70 - 130	23	35
Ethylbenzene			0.100	0.1069		mg/Kg		107	70 - 130	22	35
m-Xylene & p-Xylene			0.200	0.2382		mg/Kg		119	70 - 130	22	35
o-Xylene			0.100	0.1184		mg/Kg		118	70 - 130	20	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*154*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*

Lab Sample ID: 880-19485-21 MS
Matrix: Solid
Analysis Batch: 35073

Client Sample ID: S-6 (0-1')
Prep Type: Total/NA
Prep Batch: 35061

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U F1	0.0998	0.06937		mg/Kg		70	70 - 130		
Toluene	<0.00200	U	0.0998	0.07597		mg/Kg		76	70 - 130		
Ethylbenzene	<0.00200	U	0.0998	0.07868		mg/Kg		79	70 - 130		
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1789		mg/Kg		90	70 - 130		
o-Xylene	<0.00200	U	0.0998	0.08893		mg/Kg		89	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 880-19485-21 MSD
Matrix: Solid
Analysis Batch: 35073

Client Sample ID: S-6 (0-1')
Prep Type: Total/NA
Prep Batch: 35061

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	0.06824	F1	mg/Kg		68	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.08287		mg/Kg		83	70 - 130	9	35
Ethylbenzene	<0.00200	U	0.100	0.07688		mg/Kg		77	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.201	0.1785		mg/Kg		89	70 - 130	0	35
o-Xylene	<0.00200	U	0.100	0.08825		mg/Kg		88	70 - 130	1	35

QC Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-19485-21 MSD
Matrix: Solid
Analysis Batch: 35073

Client Sample ID: S-6 (0-1')
Prep Type: Total/NA
Prep Batch: 35061

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

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

Lab Sample ID: MB 880-35098/1-A
Matrix: Solid
Analysis Batch: 35005

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35098

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/21/22 15:28	09/21/22 19:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 15:28	09/21/22 19:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:28	09/21/22 19:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	09/21/22 15:28	09/21/22 19:44	1
o-Terphenyl	111		70 - 130	09/21/22 15:28	09/21/22 19:44	1

Lab Sample ID: LCS 880-35098/2-A
Matrix: Solid
Analysis Batch: 35005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35098

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	778.7		mg/Kg		78	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	885.1		mg/Kg		89	70 - 130		

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

Lab Sample ID: LCSD 880-35098/3-A
Matrix: Solid
Analysis Batch: 35005

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35098

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1032	*1	mg/Kg		103	70 - 130	28	20
Diesel Range Organics (Over C10-C28)			1000	1026		mg/Kg		103	70 - 130	15	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	102		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-19485-1 MS — **Client Sample ID: S-1 (0-1')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35005 — **Prep Batch: 35098**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	996	931.0		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	970.7		mg/Kg		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Lab Sample ID: 880-19485-1 MSD — **Client Sample ID: S-1 (0-1')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35005 — **Prep Batch: 35098**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	999	796.5		mg/Kg		80	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	898.7		mg/Kg		88	70 - 130	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Lab Sample ID: MB 880-35103/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35007 — **Prep Batch: 35103**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/21/22 19:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/21/22 19:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/21/22 19:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*09/21/22 15:33*	*09/21/22 19:44*	*1*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*09/21/22 15:33*	*09/21/22 19:44*	*1*

Lab Sample ID: LCS 880-35103/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35007 — **Prep Batch: 35103**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	978.2		mg/Kg		98	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-35103/2-A
Matrix: Solid
Analysis Batch: 35007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35103

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

Lab Sample ID: LCSD 880-35103/3-A
Matrix: Solid
Analysis Batch: 35007

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35103

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	946.6		mg/Kg		95	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	1014		mg/Kg		101	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 880-19485-21 MS
Matrix: Solid
Analysis Batch: 35007

Client Sample ID: S-6 (0-1')
Prep Type: Total/NA
Prep Batch: 35103

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	962.8		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1097		mg/Kg		108	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 880-19485-21 MSD
Matrix: Solid
Analysis Batch: 35007

Client Sample ID: S-6 (0-1')
Prep Type: Total/NA
Prep Batch: 35103

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	912.2		mg/Kg		89	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1095		mg/Kg		108	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	101		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35062/1-A
Matrix: Solid
Analysis Batch: 35112

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/22/22 01:09	1

Lab Sample ID: LCS 880-35062/2-A
Matrix: Solid
Analysis Batch: 35112

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	254.7		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-35062/3-A
Matrix: Solid
Analysis Batch: 35112

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	255.3		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-19485-1 MS
Matrix: Solid
Analysis Batch: 35112

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	12.0		248	264.9		mg/Kg		102	90 - 110		

Lab Sample ID: 880-19485-1 MSD
Matrix: Solid
Analysis Batch: 35112

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12.0		248	265.3		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-35063/1-A
Matrix: Solid
Analysis Batch: 35114

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/22/22 00:31	1

Lab Sample ID: LCS 880-35063/2-A
Matrix: Solid
Analysis Batch: 35114

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	249.3		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-35063/3-A
Matrix: Solid
Analysis Batch: 35114

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	264.2		mg/Kg		106	90 - 110	6	20

QC Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-19485-7 MS
Matrix: Solid
Analysis Batch: 35114

Client Sample ID: S-2 (2.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	14.0	F1 F2	249	259.1		mg/Kg		99	90 - 110

Lab Sample ID: 880-19485-7 MSD
Matrix: Solid
Analysis Batch: 35114

Client Sample ID: S-2 (2.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	14.0	F1 F2	249	204.1	F1 F2	mg/Kg		76	90 - 110	24	20

Lab Sample ID: 880-19485-17 MS
Matrix: Solid
Analysis Batch: 35114

Client Sample ID: S-4 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	16.6		252	278.5		mg/Kg		104	90 - 110

Lab Sample ID: 880-19485-17 MSD
Matrix: Solid
Analysis Batch: 35114

Client Sample ID: S-4 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	16.6		252	264.2		mg/Kg		98	90 - 110	5	20

Lab Sample ID: MB 880-35064/1-A
Matrix: Solid
Analysis Batch: 35115

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/21/22 19:58	1

Lab Sample ID: LCS 880-35064/2-A
Matrix: Solid
Analysis Batch: 35115

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.0		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-35064/3-A
Matrix: Solid
Analysis Batch: 35115

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.4		mg/Kg		98	90 - 110	5	20

Lab Sample ID: 880-19485-27 MS
Matrix: Solid
Analysis Batch: 35115

Client Sample ID: S-6 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	291	F1	251	488.2	F1	mg/Kg		79	90 - 110

QC Sample Results

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-19485-27 MSD
Matrix: Solid
Analysis Batch: 35115

Client Sample ID: S-6 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	291	F1	251	525.7		mg/Kg		94	90 - 110	7	20

QC Association Summary

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 35060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-1	S-1 (0-1')	Total/NA	Solid	5035	
880-19485-2	S-1 (1.5')	Total/NA	Solid	5035	
880-19485-3	S-1 (2')	Total/NA	Solid	5035	
880-19485-4	S-2 (0-1')	Total/NA	Solid	5035	
880-19485-5	S-2 (1.5')	Total/NA	Solid	5035	
880-19485-6	S-2 (2')	Total/NA	Solid	5035	
880-19485-7	S-2 (2.5')	Total/NA	Solid	5035	
880-19485-8	S-3 (0-1')	Total/NA	Solid	5035	
880-19485-9	S-3 (1.5')	Total/NA	Solid	5035	
880-19485-10	S-3 (2')	Total/NA	Solid	5035	
880-19485-11	S-3 (2.5')	Total/NA	Solid	5035	
880-19485-12	S-3 (3')	Total/NA	Solid	5035	
880-19485-13	S-3 (3.5')	Total/NA	Solid	5035	
880-19485-14	S-3 (4')	Total/NA	Solid	5035	
880-19485-15	S-4 (0-1')	Total/NA	Solid	5035	
880-19485-16	S-4 (1.5')	Total/NA	Solid	5035	
880-19485-17	S-4 (2')	Total/NA	Solid	5035	
880-19485-18	S-5 (0-1')	Total/NA	Solid	5035	
880-19485-19	S-5 (1.5')	Total/NA	Solid	5035	
880-19485-20	S-5 (2')	Total/NA	Solid	5035	
MB 880-35060/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35060/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35060/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19485-1 MS	S-1 (0-1')	Total/NA	Solid	5035	
880-19485-1 MSD	S-1 (0-1')	Total/NA	Solid	5035	

Prep Batch: 35061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-21	S-6 (0-1')	Total/NA	Solid	5035	
880-19485-22	S-6 (1.5')	Total/NA	Solid	5035	
880-19485-23	S-6 (2')	Total/NA	Solid	5035	
880-19485-24	S-6 (2.5')	Total/NA	Solid	5035	
880-19485-25	S-6 (3')	Total/NA	Solid	5035	
880-19485-26	S-6 (3.5')	Total/NA	Solid	5035	
880-19485-27	S-6 (4')	Total/NA	Solid	5035	
880-19485-28	S-6 (4.5')	Total/NA	Solid	5035	
880-19485-29	H-1 (0-0.5')	Total/NA	Solid	5035	
880-19485-30	H-2 (0-0.5')	Total/NA	Solid	5035	
880-19485-31	H-3 (0-0.5')	Total/NA	Solid	5035	
880-19485-32	H-4 (0-0.5')	Total/NA	Solid	5035	
880-19485-33	H-5 (0-0.5')	Total/NA	Solid	5035	
880-19485-34	H-6 (0-0.5')	Total/NA	Solid	5035	
880-19485-35	H-7 (0-0.5')	Total/NA	Solid	5035	
MB 880-35061/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35061/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35061/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19485-21 MS	S-6 (0-1')	Total/NA	Solid	5035	
880-19485-21 MSD	S-6 (0-1')	Total/NA	Solid	5035	

QC Association Summary

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 35073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-1	S-1 (0-1')	Total/NA	Solid	8021B	35060
880-19485-2	S-1 (1.5')	Total/NA	Solid	8021B	35060
880-19485-3	S-1 (2')	Total/NA	Solid	8021B	35060
880-19485-4	S-2 (0-1')	Total/NA	Solid	8021B	35060
880-19485-5	S-2 (1.5')	Total/NA	Solid	8021B	35060
880-19485-6	S-2 (2')	Total/NA	Solid	8021B	35060
880-19485-7	S-2 (2.5')	Total/NA	Solid	8021B	35060
880-19485-8	S-3 (0-1')	Total/NA	Solid	8021B	35060
880-19485-9	S-3 (1.5')	Total/NA	Solid	8021B	35060
880-19485-10	S-3 (2')	Total/NA	Solid	8021B	35060
880-19485-11	S-3 (2.5')	Total/NA	Solid	8021B	35060
880-19485-12	S-3 (3')	Total/NA	Solid	8021B	35060
880-19485-13	S-3 (3.5')	Total/NA	Solid	8021B	35060
880-19485-14	S-3 (4')	Total/NA	Solid	8021B	35060
880-19485-15	S-4 (0-1')	Total/NA	Solid	8021B	35060
880-19485-16	S-4 (1.5')	Total/NA	Solid	8021B	35060
880-19485-17	S-4 (2')	Total/NA	Solid	8021B	35060
880-19485-18	S-5 (0-1')	Total/NA	Solid	8021B	35060
880-19485-19	S-5 (1.5')	Total/NA	Solid	8021B	35060
880-19485-20	S-5 (2')	Total/NA	Solid	8021B	35060
880-19485-21	S-6 (0-1')	Total/NA	Solid	8021B	35061
880-19485-22	S-6 (1.5')	Total/NA	Solid	8021B	35061
880-19485-23	S-6 (2')	Total/NA	Solid	8021B	35061
880-19485-24	S-6 (2.5')	Total/NA	Solid	8021B	35061
880-19485-25	S-6 (3')	Total/NA	Solid	8021B	35061
880-19485-26	S-6 (3.5')	Total/NA	Solid	8021B	35061
880-19485-27	S-6 (4')	Total/NA	Solid	8021B	35061
880-19485-28	S-6 (4.5')	Total/NA	Solid	8021B	35061
880-19485-29	H-1 (0-0.5')	Total/NA	Solid	8021B	35061
880-19485-30	H-2 (0-0.5')	Total/NA	Solid	8021B	35061
880-19485-31	H-3 (0-0.5')	Total/NA	Solid	8021B	35061
880-19485-32	H-4 (0-0.5')	Total/NA	Solid	8021B	35061
880-19485-33	H-5 (0-0.5')	Total/NA	Solid	8021B	35061
880-19485-34	H-6 (0-0.5')	Total/NA	Solid	8021B	35061
880-19485-35	H-7 (0-0.5')	Total/NA	Solid	8021B	35061
MB 880-35060/5-A	Method Blank	Total/NA	Solid	8021B	35060
MB 880-35061/5-A	Method Blank	Total/NA	Solid	8021B	35061
LCS 880-35060/1-A	Lab Control Sample	Total/NA	Solid	8021B	35060
LCS 880-35061/1-A	Lab Control Sample	Total/NA	Solid	8021B	35061
LCSD 880-35060/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35060
LCSD 880-35061/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35061
880-19485-1 MS	S-1 (0-1')	Total/NA	Solid	8021B	35060
880-19485-1 MSD	S-1 (0-1')	Total/NA	Solid	8021B	35060
880-19485-21 MS	S-6 (0-1')	Total/NA	Solid	8021B	35061
880-19485-21 MSD	S-6 (0-1')	Total/NA	Solid	8021B	35061

Analysis Batch: 35131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-19485-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-19485-3	S-1 (2')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 35131 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-4	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-19485-5	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-19485-6	S-2 (2')	Total/NA	Solid	Total BTEX	
880-19485-7	S-2 (2.5')	Total/NA	Solid	Total BTEX	
880-19485-8	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-19485-9	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-19485-10	S-3 (2')	Total/NA	Solid	Total BTEX	
880-19485-11	S-3 (2.5')	Total/NA	Solid	Total BTEX	
880-19485-12	S-3 (3')	Total/NA	Solid	Total BTEX	
880-19485-13	S-3 (3.5')	Total/NA	Solid	Total BTEX	
880-19485-14	S-3 (4')	Total/NA	Solid	Total BTEX	
880-19485-15	S-4 (0-1')	Total/NA	Solid	Total BTEX	
880-19485-16	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-19485-17	S-4 (2')	Total/NA	Solid	Total BTEX	
880-19485-18	S-5 (0-1')	Total/NA	Solid	Total BTEX	
880-19485-19	S-5 (1.5')	Total/NA	Solid	Total BTEX	
880-19485-20	S-5 (2')	Total/NA	Solid	Total BTEX	
880-19485-21	S-6 (0-1')	Total/NA	Solid	Total BTEX	
880-19485-22	S-6 (1.5')	Total/NA	Solid	Total BTEX	
880-19485-23	S-6 (2')	Total/NA	Solid	Total BTEX	
880-19485-24	S-6 (2.5')	Total/NA	Solid	Total BTEX	
880-19485-25	S-6 (3')	Total/NA	Solid	Total BTEX	
880-19485-26	S-6 (3.5')	Total/NA	Solid	Total BTEX	
880-19485-27	S-6 (4')	Total/NA	Solid	Total BTEX	
880-19485-28	S-6 (4.5')	Total/NA	Solid	Total BTEX	
880-19485-29	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-19485-30	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-19485-31	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-19485-32	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-19485-33	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-19485-34	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	
880-19485-35	H-7 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 35005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-1	S-1 (0-1')	Total/NA	Solid	8015B NM	35098
880-19485-2	S-1 (1.5')	Total/NA	Solid	8015B NM	35098
880-19485-3	S-1 (2')	Total/NA	Solid	8015B NM	35098
880-19485-4	S-2 (0-1')	Total/NA	Solid	8015B NM	35098
880-19485-5	S-2 (1.5')	Total/NA	Solid	8015B NM	35098
880-19485-6	S-2 (2')	Total/NA	Solid	8015B NM	35098
880-19485-7	S-2 (2.5')	Total/NA	Solid	8015B NM	35098
880-19485-8	S-3 (0-1')	Total/NA	Solid	8015B NM	35098
880-19485-9	S-3 (1.5')	Total/NA	Solid	8015B NM	35098
880-19485-10	S-3 (2')	Total/NA	Solid	8015B NM	35098
880-19485-11	S-3 (2.5')	Total/NA	Solid	8015B NM	35098
880-19485-12	S-3 (3')	Total/NA	Solid	8015B NM	35098
880-19485-13	S-3 (3.5')	Total/NA	Solid	8015B NM	35098
880-19485-14	S-3 (4')	Total/NA	Solid	8015B NM	35098

QC Association Summary

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 35005 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-15	S-4 (0-1')	Total/NA	Solid	8015B NM	35098
880-19485-16	S-4 (1.5')	Total/NA	Solid	8015B NM	35098
880-19485-17	S-4 (2')	Total/NA	Solid	8015B NM	35098
880-19485-18	S-5 (0-1')	Total/NA	Solid	8015B NM	35098
880-19485-19	S-5 (1.5')	Total/NA	Solid	8015B NM	35098
880-19485-20	S-5 (2')	Total/NA	Solid	8015B NM	35098
MB 880-35098/1-A	Method Blank	Total/NA	Solid	8015B NM	35098
LCS 880-35098/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35098
LCSD 880-35098/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35098
880-19485-1 MS	S-1 (0-1')	Total/NA	Solid	8015B NM	35098
880-19485-1 MSD	S-1 (0-1')	Total/NA	Solid	8015B NM	35098

Analysis Batch: 35007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-21	S-6 (0-1')	Total/NA	Solid	8015B NM	35103
880-19485-22	S-6 (1.5')	Total/NA	Solid	8015B NM	35103
880-19485-23	S-6 (2')	Total/NA	Solid	8015B NM	35103
880-19485-24	S-6 (2.5')	Total/NA	Solid	8015B NM	35103
880-19485-25	S-6 (3')	Total/NA	Solid	8015B NM	35103
880-19485-26	S-6 (3.5')	Total/NA	Solid	8015B NM	35103
880-19485-27	S-6 (4')	Total/NA	Solid	8015B NM	35103
880-19485-28	S-6 (4.5')	Total/NA	Solid	8015B NM	35103
880-19485-29	H-1 (0-0.5')	Total/NA	Solid	8015B NM	35103
880-19485-30	H-2 (0-0.5')	Total/NA	Solid	8015B NM	35103
880-19485-31	H-3 (0-0.5')	Total/NA	Solid	8015B NM	35103
880-19485-32	H-4 (0-0.5')	Total/NA	Solid	8015B NM	35103
880-19485-33	H-5 (0-0.5')	Total/NA	Solid	8015B NM	35103
880-19485-34	H-6 (0-0.5')	Total/NA	Solid	8015B NM	35103
880-19485-35	H-7 (0-0.5')	Total/NA	Solid	8015B NM	35103
MB 880-35103/1-A	Method Blank	Total/NA	Solid	8015B NM	35103
LCS 880-35103/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35103
LCSD 880-35103/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35103
880-19485-21 MS	S-6 (0-1')	Total/NA	Solid	8015B NM	35103
880-19485-21 MSD	S-6 (0-1')	Total/NA	Solid	8015B NM	35103

Prep Batch: 35098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-19485-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-19485-3	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-19485-4	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-19485-5	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-19485-6	S-2 (2')	Total/NA	Solid	8015NM Prep	
880-19485-7	S-2 (2.5')	Total/NA	Solid	8015NM Prep	
880-19485-8	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-19485-9	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-19485-10	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-19485-11	S-3 (2.5')	Total/NA	Solid	8015NM Prep	
880-19485-12	S-3 (3')	Total/NA	Solid	8015NM Prep	
880-19485-13	S-3 (3.5')	Total/NA	Solid	8015NM Prep	
880-19485-14	S-3 (4')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 35098 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-15	S-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-19485-16	S-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-19485-17	S-4 (2')	Total/NA	Solid	8015NM Prep	
880-19485-18	S-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-19485-19	S-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-19485-20	S-5 (2')	Total/NA	Solid	8015NM Prep	
MB 880-35098/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35098/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35098/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19485-1 MS	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-19485-1 MSD	S-1 (0-1')	Total/NA	Solid	8015NM Prep	

Prep Batch: 35103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-21	S-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-19485-22	S-6 (1.5')	Total/NA	Solid	8015NM Prep	
880-19485-23	S-6 (2')	Total/NA	Solid	8015NM Prep	
880-19485-24	S-6 (2.5')	Total/NA	Solid	8015NM Prep	
880-19485-25	S-6 (3')	Total/NA	Solid	8015NM Prep	
880-19485-26	S-6 (3.5')	Total/NA	Solid	8015NM Prep	
880-19485-27	S-6 (4')	Total/NA	Solid	8015NM Prep	
880-19485-28	S-6 (4.5')	Total/NA	Solid	8015NM Prep	
880-19485-29	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-19485-30	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-19485-31	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-19485-32	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-19485-33	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-19485-34	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-19485-35	H-7 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-35103/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35103/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35103/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19485-21 MS	S-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-19485-21 MSD	S-6 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-19485-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-19485-3	S-1 (2')	Total/NA	Solid	8015 NM	
880-19485-4	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-19485-5	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-19485-6	S-2 (2')	Total/NA	Solid	8015 NM	
880-19485-7	S-2 (2.5')	Total/NA	Solid	8015 NM	
880-19485-8	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-19485-9	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-19485-10	S-3 (2')	Total/NA	Solid	8015 NM	
880-19485-11	S-3 (2.5')	Total/NA	Solid	8015 NM	
880-19485-12	S-3 (3')	Total/NA	Solid	8015 NM	
880-19485-13	S-3 (3.5')	Total/NA	Solid	8015 NM	
880-19485-14	S-3 (4')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 35170 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-15	S-4 (0-1')	Total/NA	Solid	8015 NM	
880-19485-16	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-19485-17	S-4 (2')	Total/NA	Solid	8015 NM	
880-19485-18	S-5 (0-1')	Total/NA	Solid	8015 NM	
880-19485-19	S-5 (1.5')	Total/NA	Solid	8015 NM	
880-19485-20	S-5 (2')	Total/NA	Solid	8015 NM	
880-19485-21	S-6 (0-1')	Total/NA	Solid	8015 NM	
880-19485-22	S-6 (1.5')	Total/NA	Solid	8015 NM	
880-19485-23	S-6 (2')	Total/NA	Solid	8015 NM	
880-19485-24	S-6 (2.5')	Total/NA	Solid	8015 NM	
880-19485-25	S-6 (3')	Total/NA	Solid	8015 NM	
880-19485-26	S-6 (3.5')	Total/NA	Solid	8015 NM	
880-19485-27	S-6 (4')	Total/NA	Solid	8015 NM	
880-19485-28	S-6 (4.5')	Total/NA	Solid	8015 NM	
880-19485-29	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-19485-30	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-19485-31	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-19485-32	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-19485-33	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-19485-34	H-6 (0-0.5')	Total/NA	Solid	8015 NM	
880-19485-35	H-7 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 35062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-19485-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-19485-3	S-1 (2')	Soluble	Solid	DI Leach	
880-19485-4	S-2 (0-1')	Soluble	Solid	DI Leach	
880-19485-5	S-2 (1.5')	Soluble	Solid	DI Leach	
880-19485-6	S-2 (2')	Soluble	Solid	DI Leach	
MB 880-35062/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35062/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35062/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19485-1 MS	S-1 (0-1')	Soluble	Solid	DI Leach	
880-19485-1 MSD	S-1 (0-1')	Soluble	Solid	DI Leach	

Leach Batch: 35063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-7	S-2 (2.5')	Soluble	Solid	DI Leach	
880-19485-8	S-3 (0-1')	Soluble	Solid	DI Leach	
880-19485-9	S-3 (1.5')	Soluble	Solid	DI Leach	
880-19485-10	S-3 (2')	Soluble	Solid	DI Leach	
880-19485-11	S-3 (2.5')	Soluble	Solid	DI Leach	
880-19485-12	S-3 (3')	Soluble	Solid	DI Leach	
880-19485-13	S-3 (3.5')	Soluble	Solid	DI Leach	
880-19485-14	S-3 (4')	Soluble	Solid	DI Leach	
880-19485-15	S-4 (0-1')	Soluble	Solid	DI Leach	
880-19485-16	S-4 (1.5')	Soluble	Solid	DI Leach	
880-19485-17	S-4 (2')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 35063 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-18	S-5 (0-1')	Soluble	Solid	DI Leach	
880-19485-19	S-5 (1.5')	Soluble	Solid	DI Leach	
880-19485-20	S-5 (2')	Soluble	Solid	DI Leach	
880-19485-21	S-6 (0-1')	Soluble	Solid	DI Leach	
880-19485-22	S-6 (1.5')	Soluble	Solid	DI Leach	
880-19485-23	S-6 (2')	Soluble	Solid	DI Leach	
880-19485-24	S-6 (2.5')	Soluble	Solid	DI Leach	
880-19485-25	S-6 (3')	Soluble	Solid	DI Leach	
880-19485-26	S-6 (3.5')	Soluble	Solid	DI Leach	
MB 880-35063/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35063/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35063/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19485-7 MS	S-2 (2.5')	Soluble	Solid	DI Leach	
880-19485-7 MSD	S-2 (2.5')	Soluble	Solid	DI Leach	
880-19485-17 MS	S-4 (2')	Soluble	Solid	DI Leach	
880-19485-17 MSD	S-4 (2')	Soluble	Solid	DI Leach	

Leach Batch: 35064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-27	S-6 (4')	Soluble	Solid	DI Leach	
880-19485-28	S-6 (4.5')	Soluble	Solid	DI Leach	
880-19485-29	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-19485-30	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-19485-31	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-19485-32	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-19485-33	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-19485-34	H-6 (0-0.5')	Soluble	Solid	DI Leach	
880-19485-35	H-7 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-35064/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35064/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35064/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19485-27 MS	S-6 (4')	Soluble	Solid	DI Leach	
880-19485-27 MSD	S-6 (4')	Soluble	Solid	DI Leach	

Analysis Batch: 35112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-1	S-1 (0-1')	Soluble	Solid	300.0	35062
880-19485-2	S-1 (1.5')	Soluble	Solid	300.0	35062
880-19485-3	S-1 (2')	Soluble	Solid	300.0	35062
880-19485-4	S-2 (0-1')	Soluble	Solid	300.0	35062
880-19485-5	S-2 (1.5')	Soluble	Solid	300.0	35062
880-19485-6	S-2 (2')	Soluble	Solid	300.0	35062
MB 880-35062/1-A	Method Blank	Soluble	Solid	300.0	35062
LCS 880-35062/2-A	Lab Control Sample	Soluble	Solid	300.0	35062
LCSD 880-35062/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35062
880-19485-1 MS	S-1 (0-1')	Soluble	Solid	300.0	35062
880-19485-1 MSD	S-1 (0-1')	Soluble	Solid	300.0	35062

Analysis Batch: 35114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-7	S-2 (2.5')	Soluble	Solid	300.0	35063

QC Association Summary

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 35114 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-8	S-3 (0-1')	Soluble	Solid	300.0	35063
880-19485-9	S-3 (1.5')	Soluble	Solid	300.0	35063
880-19485-10	S-3 (2')	Soluble	Solid	300.0	35063
880-19485-11	S-3 (2.5')	Soluble	Solid	300.0	35063
880-19485-12	S-3 (3')	Soluble	Solid	300.0	35063
880-19485-13	S-3 (3.5')	Soluble	Solid	300.0	35063
880-19485-14	S-3 (4')	Soluble	Solid	300.0	35063
880-19485-15	S-4 (0-1')	Soluble	Solid	300.0	35063
880-19485-16	S-4 (1.5')	Soluble	Solid	300.0	35063
880-19485-17	S-4 (2')	Soluble	Solid	300.0	35063
880-19485-18	S-5 (0-1')	Soluble	Solid	300.0	35063
880-19485-19	S-5 (1.5')	Soluble	Solid	300.0	35063
880-19485-20	S-5 (2')	Soluble	Solid	300.0	35063
880-19485-21	S-6 (0-1')	Soluble	Solid	300.0	35063
880-19485-22	S-6 (1.5')	Soluble	Solid	300.0	35063
880-19485-23	S-6 (2')	Soluble	Solid	300.0	35063
880-19485-24	S-6 (2.5')	Soluble	Solid	300.0	35063
880-19485-25	S-6 (3')	Soluble	Solid	300.0	35063
880-19485-26	S-6 (3.5')	Soluble	Solid	300.0	35063
MB 880-35063/1-A	Method Blank	Soluble	Solid	300.0	35063
LCS 880-35063/2-A	Lab Control Sample	Soluble	Solid	300.0	35063
LCSD 880-35063/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35063
880-19485-7 MS	S-2 (2.5')	Soluble	Solid	300.0	35063
880-19485-7 MSD	S-2 (2.5')	Soluble	Solid	300.0	35063
880-19485-17 MS	S-4 (2')	Soluble	Solid	300.0	35063
880-19485-17 MSD	S-4 (2')	Soluble	Solid	300.0	35063

Analysis Batch: 35115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19485-27	S-6 (4')	Soluble	Solid	300.0	35064
880-19485-28	S-6 (4.5')	Soluble	Solid	300.0	35064
880-19485-29	H-1 (0-0.5')	Soluble	Solid	300.0	35064
880-19485-30	H-2 (0-0.5')	Soluble	Solid	300.0	35064
880-19485-31	H-3 (0-0.5')	Soluble	Solid	300.0	35064
880-19485-32	H-4 (0-0.5')	Soluble	Solid	300.0	35064
880-19485-33	H-5 (0-0.5')	Soluble	Solid	300.0	35064
880-19485-34	H-6 (0-0.5')	Soluble	Solid	300.0	35064
880-19485-35	H-7 (0-0.5')	Soluble	Solid	300.0	35064
MB 880-35064/1-A	Method Blank	Soluble	Solid	300.0	35064
LCS 880-35064/2-A	Lab Control Sample	Soluble	Solid	300.0	35064
LCSD 880-35064/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35064
880-19485-27 MS	S-6 (4')	Soluble	Solid	300.0	35064
880-19485-27 MSD	S-6 (4')	Soluble	Solid	300.0	35064

Lab Chronicle

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-19485-1
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/21/22 17:17	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35098	09/21/22 15:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 20:49	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35062	09/21/22 13:37	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35112	09/22/22 01:23	CH	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-19485-2
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/21/22 17:38	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35098	09/21/22 15:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 21:53	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	35062	09/21/22 13:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35112	09/22/22 01:38	CH	EET MID

Client Sample ID: S-1 (2')

Lab Sample ID: 880-19485-3
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/21/22 17:58	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35098	09/21/22 15:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 22:15	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	35062	09/21/22 13:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35112	09/22/22 01:43	CH	EET MID

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

Lab Sample ID: 880-19485-4
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/21/22 18:19	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-19485-4
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35098	09/21/22 15:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 22:37	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	35062	09/21/22 13:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35112	09/22/22 01:47	CH	EET MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-19485-5
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/21/22 18:40	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35098	09/21/22 15:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 22:58	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	35062	09/21/22 13:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35112	09/22/22 01:52	CH	EET MID

Client Sample ID: S-2 (2')

Lab Sample ID: 880-19485-6
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/21/22 19:01	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35098	09/21/22 15:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 23:20	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35062	09/21/22 13:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35112	09/22/22 02:07	CH	EET MID

Client Sample ID: S-2 (2.5')

Lab Sample ID: 880-19485-7
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/21/22 19:21	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	35098	09/21/22 15:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 23:41	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (2.5')

Lab Sample ID: 880-19485-7
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	35063	09/21/22 13:44	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35114	09/22/22 00:46	CH	EET MID

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

Lab Sample ID: 880-19485-8
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/21/22 19:42	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35098	09/21/22 15:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/22/22 00:02	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35063	09/21/22 13:44	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35114	09/22/22 01:01	CH	EET MID

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-19485-9
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/21/22 20:03	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35098	09/21/22 15:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/22/22 00:23	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35063	09/21/22 13:44	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35114	09/22/22 01:06	CH	EET MID

Client Sample ID: S-3 (2')

Lab Sample ID: 880-19485-10
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/21/22 20:23	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35098	09/21/22 15:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/22/22 00:44	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35063	09/21/22 13:44	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35114	09/22/22 01:10	CH	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (2.5')

Lab Sample ID: 880-19485-11
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/21/22 21:48	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35098	09/21/22 15:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/22/22 01:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35063	09/21/22 13:45	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35114	09/22/22 01:15	CH	EET MID

Client Sample ID: S-3 (3')

Lab Sample ID: 880-19485-12
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/21/22 22:08	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35098	09/21/22 15:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/22/22 01:47	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35063	09/21/22 13:45	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35114	09/22/22 01:30	CH	EET MID

Client Sample ID: S-3 (3.5')

Lab Sample ID: 880-19485-13
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/21/22 22:29	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35098	09/21/22 15:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/22/22 02:08	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	35063	09/21/22 13:45	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35114	09/22/22 01:35	CH	EET MID

Client Sample ID: S-3 (4')

Lab Sample ID: 880-19485-14
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/21/22 22:50	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (4')

Lab Sample ID: 880-19485-14
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35098	09/21/22 15:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/22/22 02:30	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	35063	09/21/22 13:45	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35114	09/22/22 01:40	CH	EET MID

Client Sample ID: S-4 (0-1')

Lab Sample ID: 880-19485-15
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/21/22 23:11	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35098	09/21/22 15:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/22/22 02:51	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	35063	09/21/22 13:45	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35114	09/22/22 01:45	CH	EET MID

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-19485-16
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/21/22 23:31	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35098	09/21/22 15:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/22/22 03:11	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	35063	09/21/22 13:45	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35114	09/22/22 01:50	CH	EET MID

Client Sample ID: S-4 (2')

Lab Sample ID: 880-19485-17
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/21/22 23:52	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35098	09/21/22 15:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/22/22 03:32	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-4 (2')
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	35063	09/21/22 13:45	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35114	09/22/22 01:55	CH	EET MID

Client Sample ID: S-5 (0-1')
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/22/22 00:13	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35098	09/21/22 15:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/22/22 03:53	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35063	09/21/22 13:45	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35114	09/22/22 02:10	CH	EET MID

Client Sample ID: S-5 (1.5')
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/22/22 00:33	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35098	09/21/22 15:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/22/22 04:14	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35063	09/21/22 13:45	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35114	09/22/22 02:15	CH	EET MID

Client Sample ID: S-5 (2')
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	35060	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/22/22 00:54	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35098	09/21/22 15:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/22/22 04:35	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	35063	09/21/22 13:45	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35114	09/22/22 02:30	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-6 (0-1')

Lab Sample ID: 880-19485-21
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35061	09/21/22 13:04	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/22/22 03:58	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/21/22 20:49	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35063	09/21/22 13:45	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	35114	09/22/22 02:35	CH	EET MID

Client Sample ID: S-6 (1.5')

Lab Sample ID: 880-19485-22
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35061	09/21/22 13:04	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/22/22 04:19	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/21/22 21:53	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	35063	09/21/22 13:45	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35114	09/22/22 02:40	CH	EET MID

Client Sample ID: S-6 (2')

Lab Sample ID: 880-19485-23
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	35061	09/21/22 13:04	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/22/22 04:40	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/21/22 22:15	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	35063	09/21/22 13:45	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35114	09/22/22 02:45	CH	EET MID

Client Sample ID: S-6 (2.5')

Lab Sample ID: 880-19485-24
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35061	09/21/22 13:04	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/22/22 05:00	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-6 (2.5')

Lab Sample ID: 880-19485-24
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35170	09/22/22 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/21/22 22:37	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35063	09/21/22 13:45	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35114	09/22/22 02:50	CH	EET MID

Client Sample ID: S-6 (3')

Lab Sample ID: 880-19485-25
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	35061	09/21/22 13:04	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/22/22 05:21	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/21/22 22:58	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35063	09/21/22 13:45	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35114	09/22/22 02:55	CH	EET MID

Client Sample ID: S-6 (3.5')

Lab Sample ID: 880-19485-26
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35061	09/21/22 13:04	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/22/22 05:41	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/21/22 23:20	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35063	09/21/22 13:45	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35114	09/22/22 03:00	CH	EET MID

Client Sample ID: S-6 (4')

Lab Sample ID: 880-19485-27
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35061	09/21/22 13:04	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/22/22 06:02	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/21/22 23:41	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Client Sample ID: S-6 (4')

Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	35064	09/21/22 13:49	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35115	09/21/22 20:13	CH	EET MID

Client Sample ID: S-6 (4.5')

Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35061	09/21/22 13:04	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/22/22 06:23	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/22/22 00:02	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	35064	09/21/22 13:49	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35115	09/21/22 20:28	CH	EET MID

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

Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	35061	09/21/22 13:04	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/22/22 06:43	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/22/22 00:23	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35064	09/21/22 13:50	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35115	09/21/22 20:33	CH	EET MID

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

Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Lab Sample ID: 880-19485-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	35061	09/21/22 13:04	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/22/22 07:04	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/22/22 00:44	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35064	09/21/22 13:50	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35115	09/21/22 20:38	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-19485-31
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	35061	09/21/22 13:04	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/22/22 09:13	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/22/22 01:26	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	35064	09/21/22 13:50	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35115	09/21/22 20:43	CH	EET MID

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

Lab Sample ID: 880-19485-32
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35061	09/21/22 13:04	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/22/22 09:34	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/22/22 01:47	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	35064	09/21/22 13:50	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35115	09/21/22 20:58	CH	EET MID

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-19485-33
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35061	09/21/22 13:04	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/22/22 09:54	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/22/22 02:08	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	35064	09/21/22 13:50	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35115	09/21/22 21:03	CH	EET MID

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

Lab Sample ID: 880-19485-34
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35061	09/21/22 13:04	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/22/22 10:15	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-19485-34
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35170	09/22/22 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/22/22 02:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35064	09/21/22 13:50	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35115	09/21/22 21:08	CH	EET MID

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-19485-35
Matrix: Solid
Date Collected: 09/20/22 00:00
Date Received: 09/21/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35061	09/21/22 13:04	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35073	09/22/22 10:36	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35131	09/22/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35170	09/22/22 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/22/22 02:51	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	35064	09/21/22 13:50	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35115	09/21/22 21:13	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: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

Method Summary

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Federal 29 Z #2

Job ID: 880-19485-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-19485-1	S-1 (0-1')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-2	S-1 (1.5')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-3	S-1 (2')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-4	S-2 (0-1')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-5	S-2 (1.5')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-6	S-2 (2')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-7	S-2 (2.5')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-8	S-3 (0-1')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-9	S-3 (1.5')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-10	S-3 (2')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-11	S-3 (2.5')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-12	S-3 (3')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-13	S-3 (3.5')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-14	S-3 (4')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-15	S-4 (0-1')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-16	S-4 (1.5')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-17	S-4 (2')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-18	S-5 (0-1')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-19	S-5 (1.5')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-20	S-5 (2')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-21	S-6 (0-1')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-22	S-6 (1.5')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-23	S-6 (2')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-24	S-6 (2.5')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-25	S-6 (3')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-26	S-6 (3.5')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-27	S-6 (4')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-28	S-6 (4.5')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-29	H-1 (0-0.5')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-30	H-2 (0-0.5')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-31	H-3 (0-0.5')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-32	H-4 (0-0.5')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-33	H-5 (0-0.5')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-34	H-6 (0-0.5')	Solid	09/20/22 00:00	09/21/22 10:34
880-19485-35	H-7 (0-0.5')	Solid	09/20/22 00:00	09/21/22 10:34

Work Order No: 19485

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address	310 W Wall St Ste 415	Address	15 W London Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving,NM 88256
Phone	(432) 813-6823	Email	jacqui.harris@conocophillips.com

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Federal 29 Z #2	Turn Around	☐ Routine ☑ Rush
Project Number	1103	Due Date	48 Hours
Project Location	Eddy County, New Mexico		
Sampler's Name	GP/MM		
PO #			

SAMPLE RECEIPT			
Temp Blank.	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID	IR8
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-.20
Sample Custody Seals.	Yes No (N/A)	Temperature Reading	.4
Total Containers.		Corrected Temperature	.6

Preservative Codes

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

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
S-1 (0-1')	9/20/2022		X		G	1	X	X	X	
S-1 (1.5')	9/20/2022		X		G	1	X	X	X	
S-1 (2')	9/20/2022		X		G	1	X	X	X	
S-2 (0-1')	9/20/2022		X		G	1	X	X	X	
S-2 (1 5')	9/20/2022		X		G	1	X	X	X	
S-2 (2')	9/20/2022		X		G	1	X	X	X	
S-2 (2.5')	9/20/2022		X		G	1	X	X	X	
S-3 (0-1')	9/20/2022		X		G	1	X	X	X	
S-3 (1.5')	9/20/2022		X		G	1	X	X	X	
S-3 (2')	9/20/2022		X		G	1	X	X	X	

880-19485 Chain of Custody

Comments:

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	9/21/22 10:34		

Work Order No: 19485

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address	310 W Wall St Ste 415	Address	15 W London Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving NM 88256
Phone	(432) 813-6823 Email		jacqui.harris@conocophillips.com

Work Order Comments

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

State of Project:

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

Deliverables. EDD ☐ ADaPT ☐ Other:

Project Name	Federal 29 Z #2	Turn Around	
Project Number	1103	☐ Routine ☑ Rush	
Project Location	Eddy County, New Mexico	Due Date	
Sampler's Name	GP/MM	48 hours	
PO #:			

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

Preservative Codes

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

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
S-3 (2 5')	9/20/2022		X		G	1		X	X	X	
S-3 (3')	9/20/2022		X		G	1		X	X	X	
S-3 (3.5')	9/20/2022		X		G	1		X	X	X	
S-3 (4')	9/20/2022		X		G	1		X	X	X	
S-4 (0-1')	9/20/2022		X		G	1		X	X	X	
S-4 (1 5')	9/20/2022		X		G	1		X	X	X	
S-4 (2')	9/20/2022		X		G	1		X	X	X	
S-5 (0-1')	9/20/2022		X		G	1		X	X	X	
S-5 (1 5')	9/20/2022		X		G	1		X	X	X	
S-5 (2')	9/20/2022		X		G	1		X	X	X	

Comments:

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	9/21/22 10:34		

Work Order No: 19485

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name.	Carmona Resources	Company Name	COG
Address.	310 W Wall St Ste 415	Address	15 W London Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving,NM 88256
Phone	(432) 813-6823 Email		jacqui.harris@conocophillips.com

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Federal 29 Z #2	Turn Around	
Project Number	1103	☐ Routine ☑ Rush	
Project Location	Eddy County, New Mexico	Due Date	
Sampler's Name	GP/MM	48 Hours	
PO #:			

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

Preservative Codes

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

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
S-6 (0-1')	9/20/2022		X		G	1		X	X	X	
S-6 (1 5')	9/20/2022		X		G	1		X	X	X	
S-6 (2')	9/20/2022		X		G	1		X	X	X	
S-6 (2 5')	9/20/2022		X		G	1		X	X	X	
S-6 (3')	9/20/2022		X		G	1		X	X	X	
S-6 (3 5')	9/20/2022		X		G	1		X	X	X	
S-6 (4')	9/20/2022		X		G	1		X	X	X	
S-6 (4 5')	9/20/2022		X		G	1		X	X	X	
H-1 (0-0.5')	9/20/2022		X		G	1		X	X	X	
H-2 (0-0.5')	9/20/2022		X		G	1		X	X	X	

ANALYSIS REQUEST

Comments:

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Conner Moehring	9/21/22 1034		

Work Order No: 19485

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address.	310 W Wall St Ste 415	Address	15 W London Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving,NM 88256
Phone	(432) 813-6823 Email		jacqui.harris@conocophillips.com

Work Order Comments

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

State of Project:

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

Deliverables. EDD ☐ ADaPT ☐ Other:

Project Name	Federal 29 Z #2	Turn Around	
Project Number	1103	☐ Routine ☑ Rush	
Project Location	Eddy County, New Mexico	Due Date	
Sampler's Name	GP/MM	48 Hours	
PO #:			

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

Preservative Codes

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

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
H-3 (0-0 5')	9/20/2022		X		G	1		X	X	X	
H-4 (0-0.5')	9/20/2022		X		G	1		X	X	X	
H-5 (0-0 5')	9/20/2022		X		G	1		X	X	X	
H-6 (0-0 5')	9/20/2022		X		G	1		X	X	X	
H-7 (0-0.5')	9/20/2022		X		G	1		X	X	X	

Loc: 880
19485

Comments:

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Conner Moehring	9/21/22 1034		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-19485-1
SDG Number: Eddy County, New Mexico

Login Number: 19485
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

10 Desta Dr., Suite 150E
Midland, TX 79705
T 432.520.7720
TRCcompanies.com

Appendix D – Photographic Documentation

Federal 29 Z 002H

Photographic Documentation

Photograph No. 1 **Date:** **7/25/2022** **Direction:** **South** **Description:** **Relase area.**	
Photograph No. 2 **Date:** **7/25/2022** **Direction:** **West** **Description:** **Release area.**	

Federal 29 Z 002H

Photographic Documentation

Photograph No. 3 **Date:** **6/5/2023** **Direction:** **Northwest** **Description:** **Release area.**	
Photograph No. 4 **Date:** **6/14/2023** **Direction:** **Northeast** **Description:** **Release area.**	

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

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

QUESTIONS

Action 298904

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 298904
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2221331648**
Incident Name	**NAPP2221331648 FEDERAL 29 Z 002H @ 0**
Incident Type	**Oil Release**
Incident Status	**Remediation Plan Approved**
Incident Facility	**[fAPP2203544127] Federal Z RB**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	FEDERAL 29 Z 002H
Date Release Discovered	07/16/2022
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure | Other (Specify) | Crude Oil | Released: 2 BBL | Recovered: 0 BBL | Lost: 2 BBL.
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	*Not answered.*
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 298904
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**More info needed to determine if this will be treated as a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	*Unavailable.*
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	packing blow out - release on and off pad
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Jared Stoffel Title: Scientist Email: jstoffel@trccompanies.com Date: 01/02/2024

District I
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State of New Mexico
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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 298904
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 100 and 200 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	3860
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	99.5
GRO+DRO (EPA SW-846 Method 8015M)	99.5
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	03/01/2024
On what date will (or did) the final sampling or liner inspection occur	03/25/2024
On what date will (or was) the remediation complete(d)	03/30/2024
What is the estimated surface area (in square feet) that will be reclaimed	300
What is the estimated volume (in cubic yards) that will be reclaimed	1050
What is the estimated surface area (in square feet) that will be remediated	300
What is the estimated volume (in cubic yards) that will be remediated	1050
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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1625 N. French Dr., Hobbs, NM 88240
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District II
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 298904
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jared Stoffel Title: Scientist Email: jstoffel@trccompanies.com Date: 01/02/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 298904
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 298904
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	***{Unavailable.}***

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 298904

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 298904
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This remediation plan is conditionally approved. The variance request to forgo confirmation sampling is denied. An alternative sampling plan would require a proposed sampling grid map and sampling statistics showing equal or better protection of fresh water, public health and the environment. The demonstration should show that depth to groundwater and karst are not an issue. Also, that it's not within a 100-year floodplain.	3/5/2024