



SITE INFORMATION

Closure Report
ZHU 2331 1-6
Incident ID NAPP2220044012
Eddy County, New Mexico
Unit K Sec 24 T26S R31E
32.026666°, -103.733611°

Diesel Release
Point of Release: Fuel spill on the line pump due to vandalism/theft
Release Date: 07/11/2022
Volume Released: 1.137 barrels of Diesel Fuel
Volume Recovered: 0 barrels of Diesel Fuel

CARMONA RESOURCES



Prepared for:
ConocoPhillips,
600 West Illinois Avenue,
Midland, Texas 79701

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



TABLE OF CONTENTS

1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT ACTIVITIES

5.0 REMEDIATION ACTIVITIES

6.0 CONCLUSIONS

FIGURES

FIGURE 1	OVERVIEW	FIGURE 2	TOPOGRAPHIC
FIGURE 3	SAMPLE LOCATION	FIGURE 4	EXCAVATION

APPENDICES

APPENDIX A	TABLES
APPENDIX B	PHOTOS
APPENDIX C	INITIAL AND FINAL C-141 / NMOCD CORRESPONDENCE
APPENDIX D	SITE CHARACTERIZATION AND GROUNDWATER
APPENDIX E	LABORATORY REPORTS

August 10, 2022

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

Re: Closure Report
ZHU 2331 1-6
ConocoPhillips
Incident ID NAPP2220044012
Site Location: Unit K, S24, T26S, R31E
(Lat 32.026666°, Long -103.733611°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of ConocoPhillips, (COP), Carmona Resources, LLC has prepared this letter to document site activities for ZHU 2331 1-6. The site is located at 32.026666°, -103.733611° within Unit K, S24, T26S, R31E, 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 11, 2022, due to vandalism and theft on the line pump. It resulted in the release of approximately one point one three seven (1.137) barrels of diesel fuel, and zero (0) barrels of diesel fuel were recovered. See 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, no known water source is located within a 0.50-mile radius of the location. The closest well is approximately 2.00 miles Southeast of the site in S31, T26S, R32E and was drilled in 1946. The well has a reported depth to groundwater of 295' feet 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.



4.0 Site Assessment Activities

On July 14, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of five (5) sample points were advanced to depths ranging from the surface – 1' 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. Refer to Table 1.

5.0 Remediation Activities

Carmona Resources personnel were onsite on August 3, 2022, to supervise the remediation activities and collect confirmation samples. The area was excavated to 1.0' to remove all impacted soils. A total of one (1) confirmation sample was collected (CS-1), and four (4) sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The results of the sampling are summarized in Table 2. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 20 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

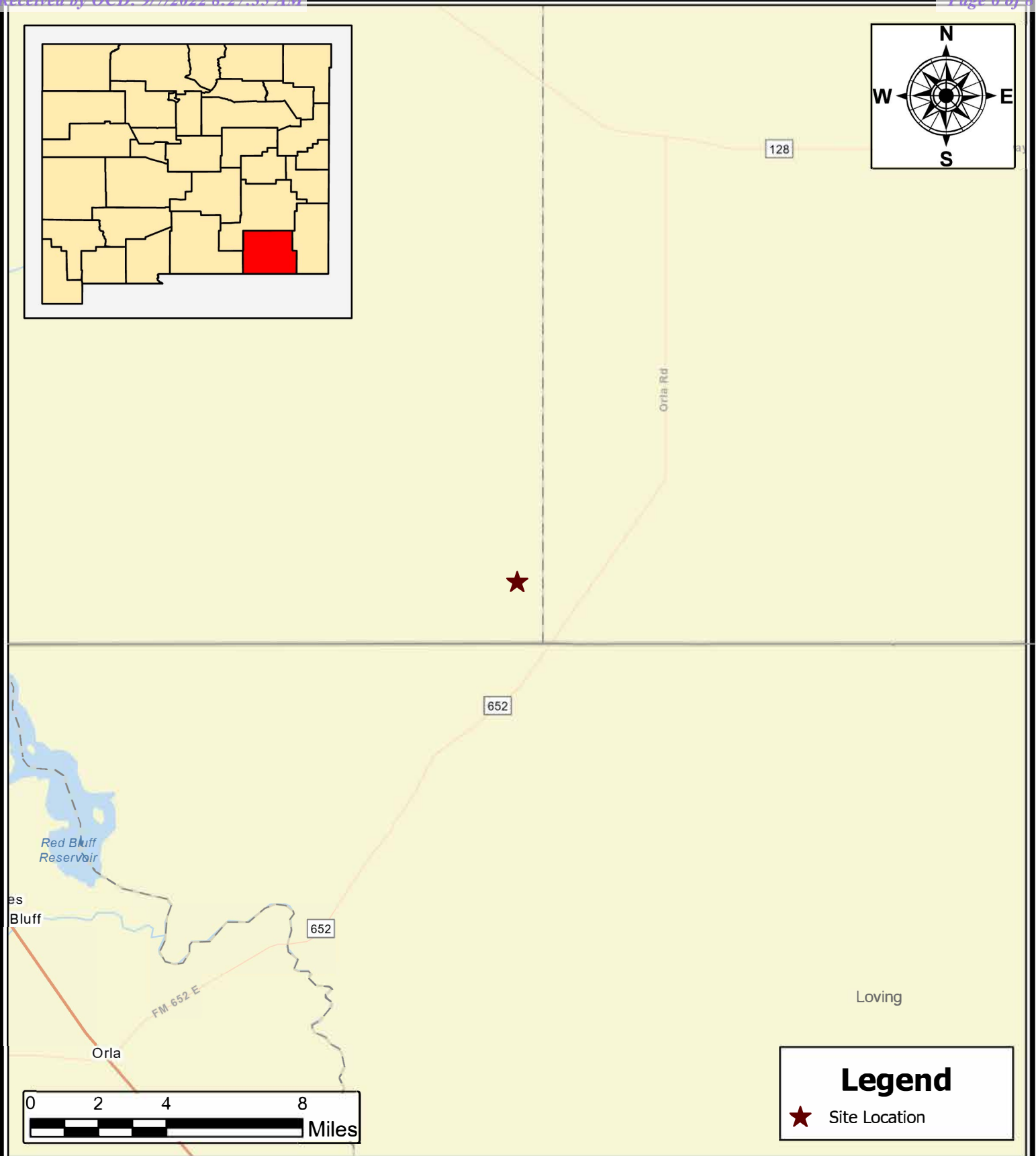
Conner Moehring
Sr Project Manager

Ashton Thielke
Sr Project Manager

FIGURES

CARMONA RESOURCES





OVERVIEW MAP
CONOCOPHILLIPS
ZHU 2331 1-6
EDDY COUNTY, NEW MEXICO
32.026666, -103.733611

SCALE: As Shown Date: 8/8/2022

CARMONA RESOURCES

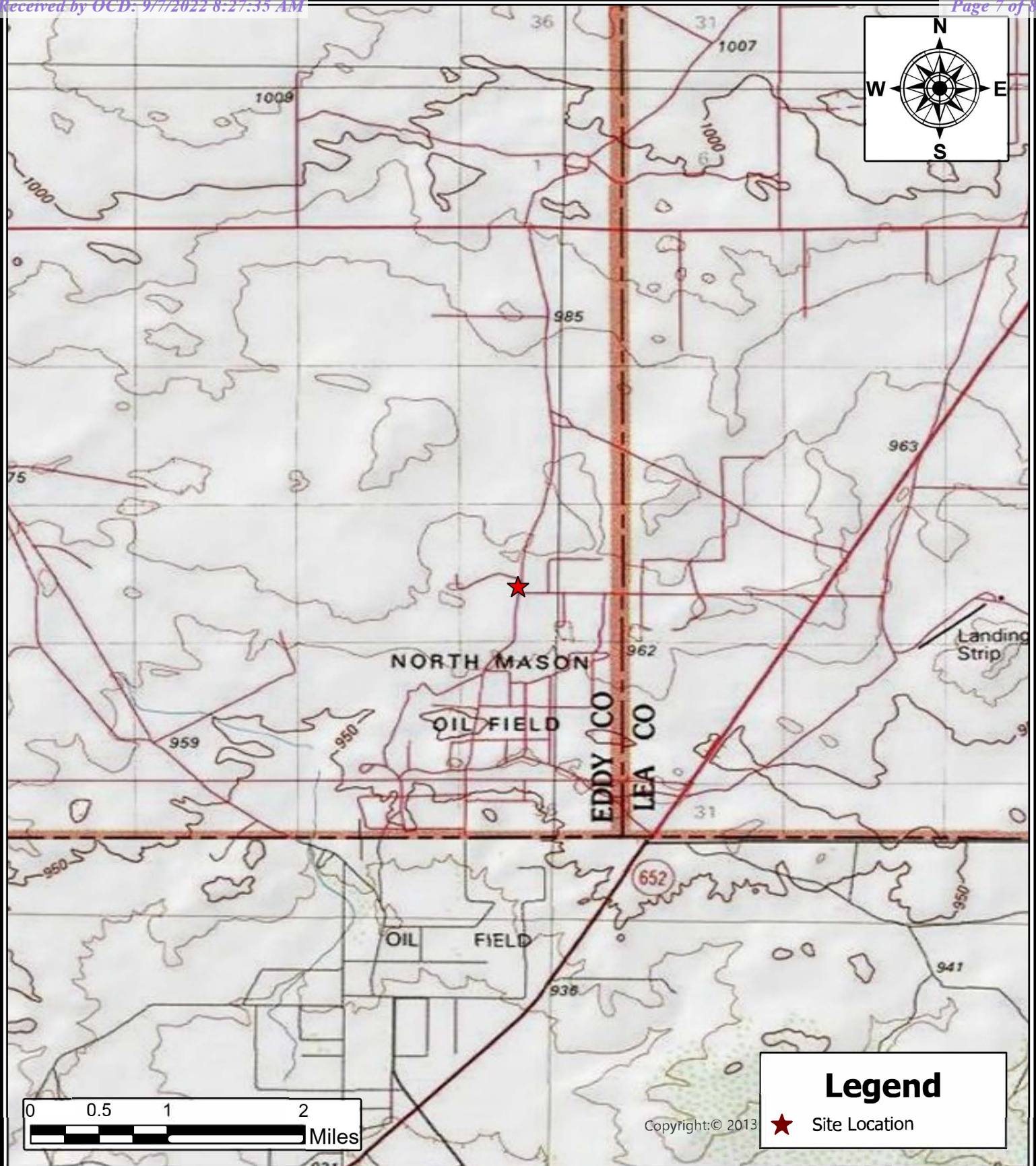
Carmona Resources
310 West Wall Street, Suite 415
Midland, Texas 79701

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 1

SHEET NUMBER:
1 of 1



**TOPOGRAPHIC MAP
CONOCOPHILLIPS**

ZHU 2331 1-6
EDDY COUNTY, NEW MEXICO
32.026666, -103.733611

SCALE: As Shown

Date: 8/8/2022



Carmona Resources
310 West Wall Street, Suite 415
Midland, Texas 79701

NOTES:

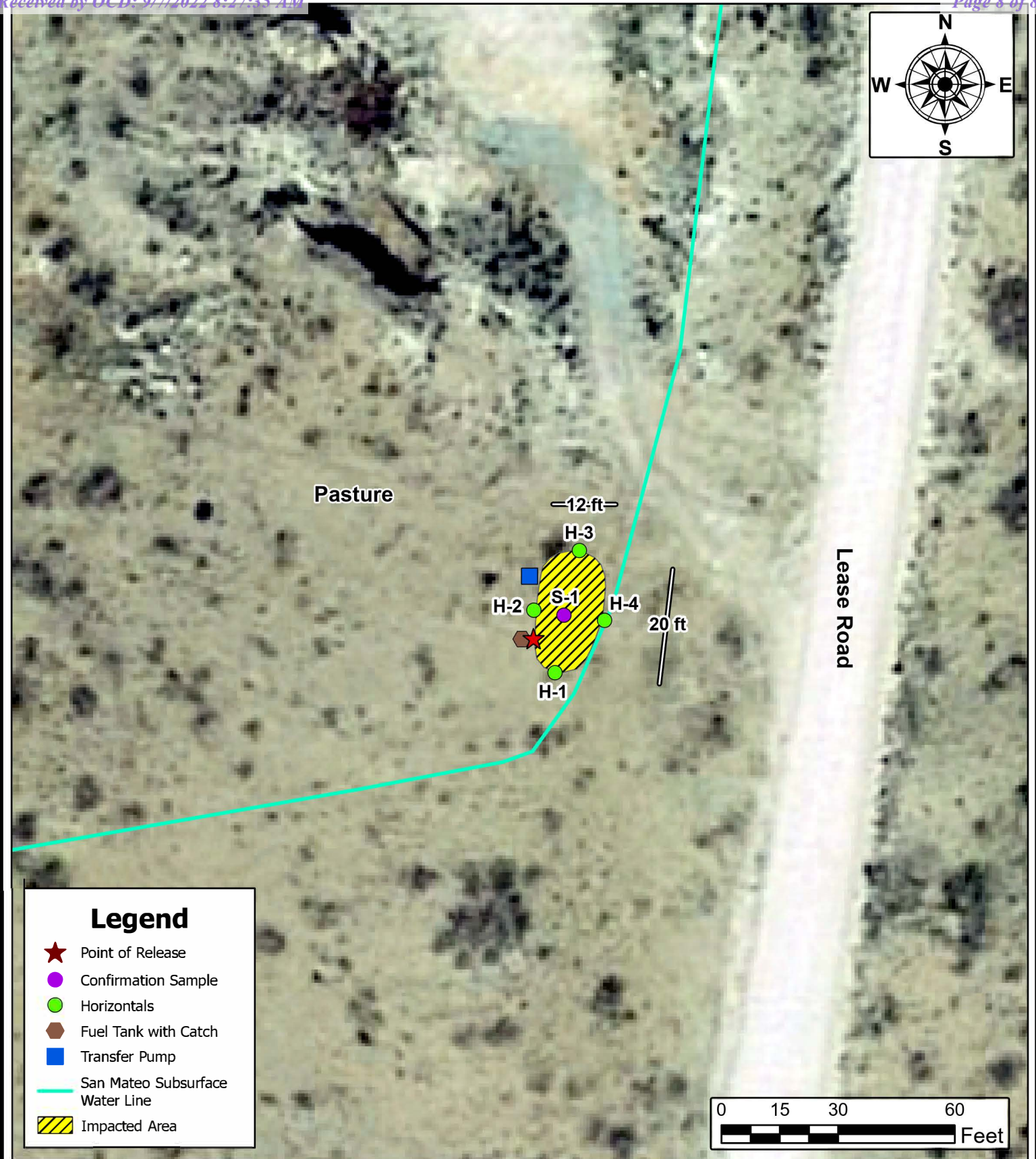
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

FIGURE 2

SHEET NUMBER:

1 of 1



Legend

- ★ Point of Release
- Confirmation Sample
- Horizontals
- ⬢ Fuel Tank with Catch
- Transfer Pump
- San Mateo Subsurface Water Line
- ▨ Impacted Area

0 15 30 60
Feet

SAMPLE LOCATION MAP
CONOCOPHILLIPS
ZHU 2331 1-6
EDDY COUNTY, NEW MEXICO
32.026666, -103.733611

SCALE: As Shown

Date: 8/9/2022



Carmona Resources
310 West Wall Street, Suite 415
Midland, Texas 79701

NOTES:

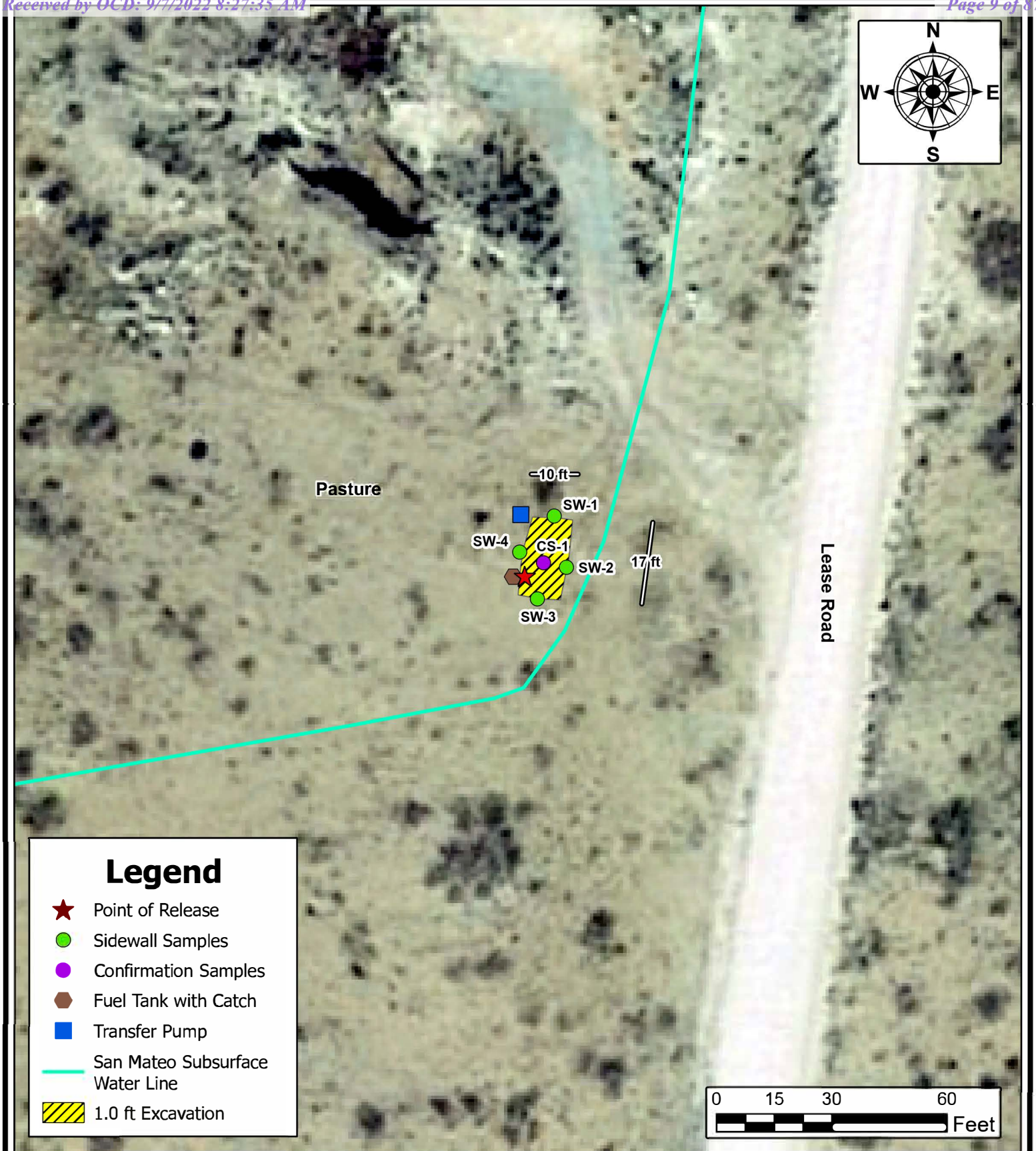
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

FIGURE 3

SHEET NUMBER:

1 of 1



EXCAVATION DEPTH MAP
CONOCOPHILLIPS
 ZHU 2331 1-6
 EDDY COUNTY, NEW MEXICO
 32.026666, -103.733611

SCALE: As Shown

Date: 8/9/2022



Carmona Resources
 310 West Wall Street, Suite 415
 Midland, Texas 79701

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

FIGURE 4

SHEET NUMBER:

1 of 1

APPENDIX A

CARMONA RESOURCES



Table 1
COP
ZHU 2331 1-6
Eddy County, New Mexico

Sample ID	Date	Depth (in)	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	7/14/2022	0-3"	1,990	19,100	<250	21,100	<0.0402	1.17	4.43	19.3	26.0	69.1
	"	6"	1,770	21,500	<250	23,300	<0.0401	0.416	1.73	7.25	9.40	48.2
	"	12"	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	289
H-1	7/14/2022	0-6"	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	63.2
H-2	7/14/2022	0-6"	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	864
H-3	7/14/2022	0-6"	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	139
H-4	7/14/2022	0-6"	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	149
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

in-inches

(S) Sample Point

(H) Horizontal

Removed

Table 2
COP
ZHU 2331 1-6
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	8/3/2022	1'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	9.08
SW-1	8/3/2022	1'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	7.07
SW-2	8/3/2022	1'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	10.9
SW-3	8/3/2022	1'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	10.2
SW-4	8/3/2022	1'	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	11.3
Regulatory Criteria ^A						100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

ConocoPhillips

Photograph No. 1

Facility: ZHU 2331 1-6

County: Eddy County, New Mexico

Description:

View East, area of concern.



Photograph No. 2

Facility: ZHU 2331 1-6

County: Eddy County, New Mexico

Description:

View North, area of concern.



Photograph No. 3

Facility: ZHU 2331 1-6

County: Eddy County, New Mexico

Description:

View Northwest, area of confirmation sample (1).



PHOTOGRAPHIC LOG

ConocoPhillips

Photograph No. 4

Facility: ZHU 2331 1-6

County: Eddy County, New Mexico

Description:

View Southwest, area of confirmation sample (1).



Photograph No. 5

Facility: ZHU 2331 1-6

County: Eddy County, New Mexico

Description:

View Northeast, backfilled area.



Photograph No. 6

Facility: ZHU 2331 1-6

County: Eddy County, New Mexico

Description:

View Southwest, backfilled area.



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	NAPP2220044012
District RP	
Facility ID	fAPP2129428702
Application ID	

Release Notification

Responsible Party

Responsible Party	ConocoPhillips	OGRID	217817
Contact Name	Justin Carlile	Contact Telephone	(432) 202-4112
Contact email	Justin.Carlile@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2220044012
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.026666 Longitude -103.733611
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	ZHU 2331 1-6	Site Type	Tank Battery
Date Release Discovered	July 11, 2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
K	24	26S	31E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Diesel	1.137 bbls	0 bbls

Cause of Release

The release was caused by a fuel spill on the line pump due to vandalism/theft.
A vacuum truck was dispatched to remove all freestanding fluids.
Evaluation will be made at the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Incident ID	NAPP2220044012
District RP	
Facility ID	fAPP2129428702
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)? Immediate notice was given by Justin Carlile via e-mail July, 12 2022 at 9:32 pm to ocd.enviro@state.nm.us and blm_nm_cfo_spill@blm.gov.	

Initial Response

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

<p><input type="checkbox"/> The source of the release has been stopped.</p> <p><input type="checkbox"/> The impacted area has been secured to protect human health and the environment.</p> <p><input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.</p> <p><input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.</p>	
<p>If all the actions described above have <u>not</u> been undertaken, explain why:</p> 	
<p>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.</p>	
<p>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.</p>	
<p>Printed Name: Brittany N. Esparza</p> <p>Signature: </p> <p>email: Brittany.Esparza@ConocoPhillips.com</p>	<p>Title: Environmental Technician</p> <p>Date: 7/19/2022</p> <p>Telephone: (432) 221-0398</p>
<p><u>OCD Only</u></p> <p>Received by: Jocelyn Harimon Date: 07/19/2022</p>	

Facility Name & Number:	ZHU 2331 1-6
Asset Area:	Zia Hils
Release Discovery Date & Time:	7/11/2022 11:00
Release Type:	Other
Provide any known details about the event:	Deisel fuel from overhead fuel tank

Spill Calculation - On Pad Surface Pool Spill

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated <u>Pool</u> Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	17.0	9.0	2.00	4	153.000	0.042	1.135	0.002	1.137
Rectangle B					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle C					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle D					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle J					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Total Volume Release:									1.137

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

Action 126847

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 126847
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	7/19/2022

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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Justin Carlile Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 09/07/2022

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: Justin Carlile Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 09/07/2022

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

Closure Approved by: Jennifer Nobui Date: 09/12/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

From: Mike Carmona
Sent: Monday, August 1, 2022 9:02 AM
To: OCD.Enviro@state.nm.us
Cc: Carlile, Justin; Conner Moehring; Ashton Thielke
Subject: COG ZHU 2331-1 Release Sampling Notification

Good Morning,

On behalf of COG, Carmona Resources will be collecting confirmation samples at the below-referenced site for the at-risk remediation on 08/03/22 around 9:00 a.m. Mountain Time. Please let me know if you have any questions.

COG ZHU 2331-1 Release
Sec 24 T26S R31E Unit K
32.026764, -103.733837
Eddy County, New Mexico

Mike J. Carmona
310 West Wall Street, Suite 415
Midland TX, 79701
M: 432-813-1992
Mcarmona@carmonaresources.com

CARMONA RESOURCES



APPENDIX D

CARMONA RESOURCES



NEAREST WATER WELL

COG OPERATING

Legend

- 0.50 Mile Radius
- 2.00 Miles
- NMSEO Water Well
- ZHU 2331 1-6



HIGH KARST

COG OPERATING

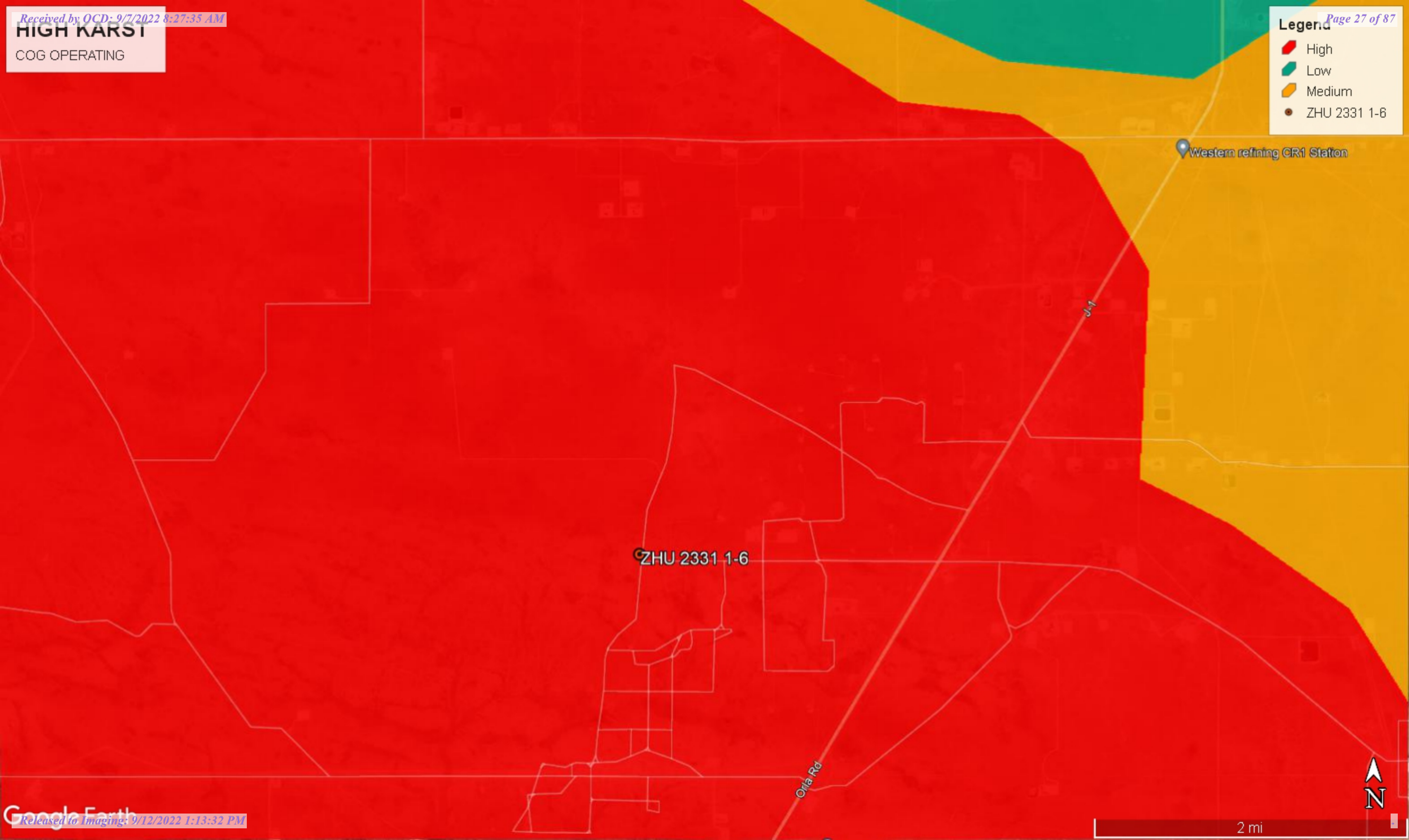
Legend

High

Low

Medium

ZHU 2331 1-6





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02274	CUB	LE		2	1	2	31	26S	32E	621742	3541730*	3220	300	295	5

Average Depth to Water: **295 feet**

Minimum Depth: **295 feet**

Maximum Depth: **295 feet**

Record Count: 1

UTM NAD83 Radius Search (in meters):

Easting (X): 619565.4

Northing (Y): 3544102.97

Radius: 4000

*UTM location was derived from PLSS - see Help

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

7/14/22 2:16 PM


Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
	C 02274	2	1	2	31	26S	32E	621742	3541730* 
<div>x</div>									
Driller License:		Driller Company:							
Driller Name:		UNKNOWN							
Drill Start Date:		Drill Finish Date:				12/31/1946		Plug Date:	
Log File Date:		PCW Rcv Date:				Source:			
Pump Type:		Pipe Discharge Size:				Estimated Yield: 6 GPM			
Casing Size: 6.38		Depth Well:				300 feet		Depth Water: 295 feet	

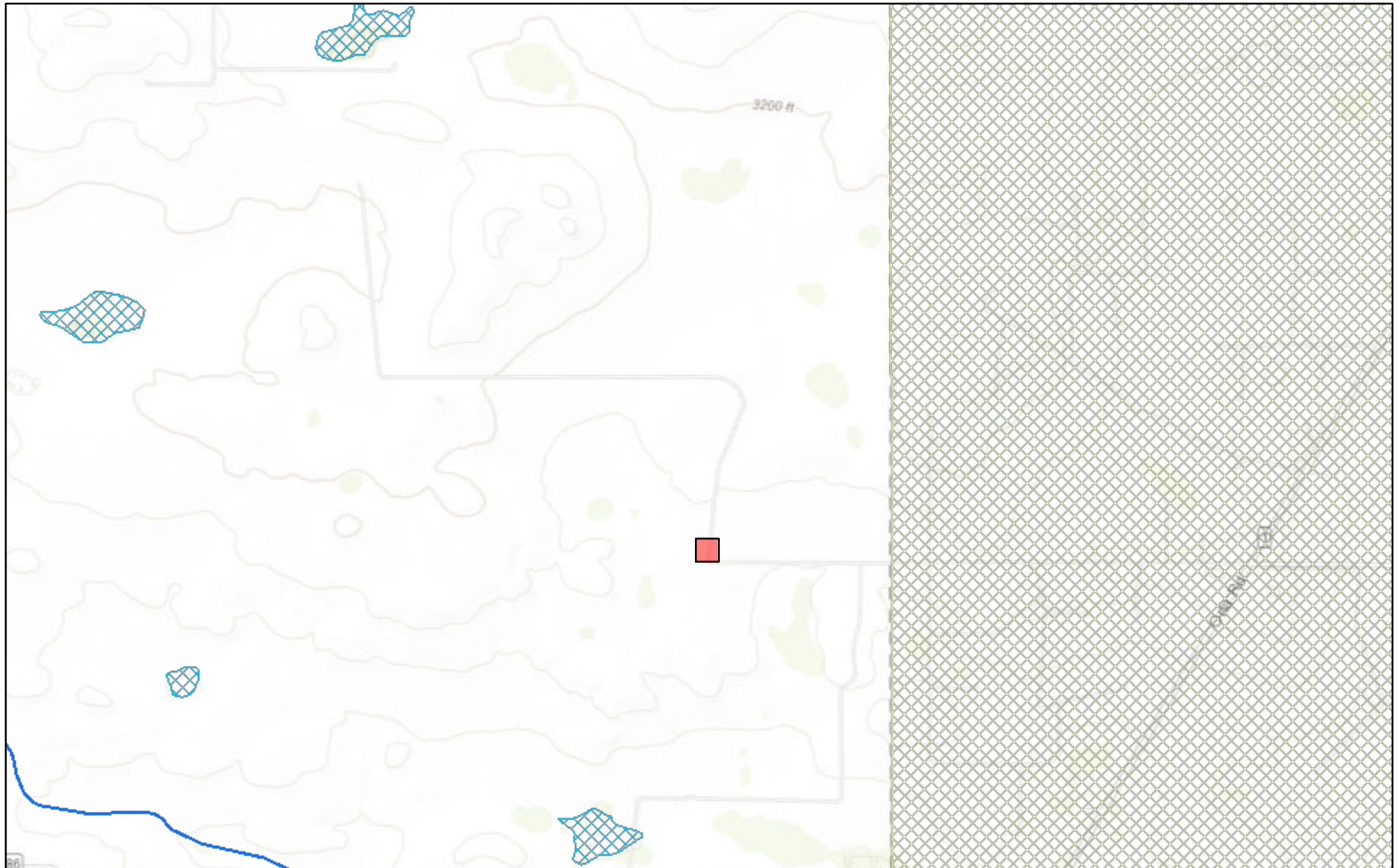
*UTM location was derived from PLSS - see Help

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

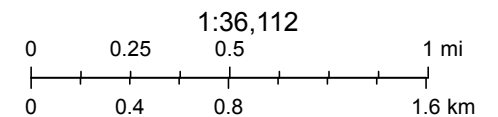
7/14/22 2:16 PM

POINT OF DIVERSION SUMMARY

New Mexico NFHL Data



July 14, 2022



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,

This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

APPENDIX E

CARMONA RESOURCES





Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-16938-1

Laboratory Sample Delivery Group: Eddy Co, NM
Client Project/Site: ZHU 2331-1 Release

For:

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

Attn: Clint Merritt

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

7/20/2022 11:28:02 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

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: ZHU 2331-1 Release

Laboratory Job ID: 880-16938-1
SDG: Eddy Co, NM

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Client Sample Results	6
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	20
Lab Chronicle	23
Certification Summary	26
Method Summary	27
Sample Summary	28
Chain of Custody	29
Receipt Checklists	30

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Definitions/Glossary

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Eurofins Midland

Definitions/Glossary

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Case Narrative

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

Job ID: 880-16938-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-16938-1****Receipt**

The samples were received on 7/14/2022 3:07 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-1 (0-3") (880-16938-1). 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: S-1 (0-3") (880-16938-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The following sample was diluted due to the nature of the sample matrix OR abundance of target analytes OR abundance of non-target analytes: S-1 (0-3") (880-16938-1). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

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 native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 880-29771 and analytical batch 880-29692 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-1 (6") (880-16938-2), (880-16938-A-1-E MS) and (880-16938-A-1-F MSD). 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 880-29855 and 880-29855 and analytical batch 880-29880 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-16938-1

Date Collected: 07/14/22 00:00

Matrix: Solid

Date Received: 07/14/22 15:07

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0402	U	0.0402		mg/Kg		07/14/22 16:20	07/15/22 16:29	20
Toluene	1.17		0.0402		mg/Kg		07/14/22 16:20	07/15/22 16:29	20
Ethylbenzene	4.43		0.0402		mg/Kg		07/14/22 16:20	07/15/22 16:29	20
m-Xylene & p-Xylene	14.3		0.0805		mg/Kg		07/14/22 16:20	07/15/22 16:29	20
o-Xylene	6.10		0.994		mg/Kg		07/18/22 15:14	07/19/22 22:07	500
Xylenes, Total	19.3		1.99		mg/Kg		07/18/22 15:14	07/19/22 22:07	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	07/14/22 16:20	07/15/22 16:29	20
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130	07/14/22 16:20	07/15/22 16:29	20

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	26.0		0.0805		mg/Kg			07/18/22 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21100		250		mg/Kg			07/15/22 10:13	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	1990	F1 F2	250		mg/Kg		07/14/22 16:33	07/15/22 07:16	5
Diesel Range Organics (Over C10-C28)	19100		250		mg/Kg		07/14/22 16:33	07/15/22 07:16	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		07/14/22 16:33	07/15/22 07:16	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				07/14/22 16:33	07/15/22 07:16	5
o-Terphenyl	120		70 - 130				07/14/22 16:33	07/15/22 07:16	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.1	F1	4.98		mg/Kg			07/16/22 08:42	1

Client Sample ID: S-1 (6")

Lab Sample ID: 880-16938-2

Date Collected: 07/14/22 00:00

Matrix: Solid

Date Received: 07/14/22 15:07

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0401	U	0.0401		mg/Kg		07/14/22 16:20	07/15/22 16:49	20
Toluene	0.416		0.0401		mg/Kg		07/14/22 16:20	07/15/22 16:49	20
Ethylbenzene	1.73		0.0401		mg/Kg		07/14/22 16:20	07/15/22 16:49	20
m-Xylene & p-Xylene	4.40		0.0802		mg/Kg		07/14/22 16:20	07/15/22 16:49	20
o-Xylene	2.85		0.0401		mg/Kg		07/14/22 16:20	07/15/22 16:49	20
Xylenes, Total	7.25		0.0802		mg/Kg		07/14/22 16:20	07/15/22 16:49	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	07/14/22 16:20	07/15/22 16:49	20
1,4-Difluorobenzene (Surr)	78		70 - 130	07/14/22 16:20	07/15/22 16:49	20

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (6")

Lab Sample ID: 880-16938-2

Date Collected: 07/14/22 00:00

Matrix: Solid

Date Received: 07/14/22 15:07

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	9.40		0.0802		mg/Kg			07/18/22 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23300		250		mg/Kg			07/15/22 10:13	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	1770		250		mg/Kg		07/14/22 16:33	07/15/22 07:37	5
Diesel Range Organics (Over C10-C28)	21500		250		mg/Kg		07/14/22 16:33	07/15/22 07:37	5
OII Range Organics (Over C28-C36)	<250	U	250		mg/Kg		07/14/22 16:33	07/15/22 07:37	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				07/14/22 16:33	07/15/22 07:37	5
o-Terphenyl	143	S1+	70 - 130				07/14/22 16:33	07/15/22 07:37	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.2		5.00		mg/Kg			07/16/22 09:05	1

Client Sample ID: S-1 (1')

Lab Sample ID: 880-16938-3

Date Collected: 07/14/22 00:00

Matrix: Solid

Date Received: 07/14/22 15:07

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		07/14/22 16:20	07/15/22 15:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:20	07/15/22 15:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:20	07/15/22 15:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/22 16:20	07/15/22 15:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:20	07/15/22 15:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/22 16:20	07/15/22 15:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				07/14/22 16:20	07/15/22 15:07	1
1,4-Difluorobenzene (Surr)	95		70 - 130				07/14/22 16:20	07/15/22 15:07	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			07/18/22 13:45	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			07/15/22 10:13	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		07/14/22 16:33	07/14/22 22:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/14/22 22:20	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (1')

Lab Sample ID: 880-16938-3

Date Collected: 07/14/22 00:00

Matrix: Solid

Date Received: 07/14/22 15:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/14/22 22:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				07/14/22 16:33	07/14/22 22:20	1
o-Terphenyl	101		70 - 130				07/14/22 16:33	07/14/22 22:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	289		4.95		mg/Kg			07/16/22 09:13	1

Client Sample ID: H-1 (0-6")

Lab Sample ID: 880-16938-4

Date Collected: 07/14/22 00:00

Matrix: Solid

Date Received: 07/14/22 15:07

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		07/14/22 16:20	07/15/22 15:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/22 16:20	07/15/22 15:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/22 16:20	07/15/22 15:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 16:20	07/15/22 15:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/22 16:20	07/15/22 15:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 16:20	07/15/22 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				07/14/22 16:20	07/15/22 15:27	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/14/22 16:20	07/15/22 15:27	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			07/18/22 13:45	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			07/15/22 10:13	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		07/14/22 16:33	07/14/22 22:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/14/22 22:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/14/22 22:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				07/14/22 16:33	07/14/22 22:41	1
o-Terphenyl	104		70 - 130				07/14/22 16:33	07/14/22 22:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.2		5.01		mg/Kg			07/16/22 09:21	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

Client Sample ID: H-2 (0-6")

Lab Sample ID: 880-16938-5

Date Collected: 07/14/22 00:00

Matrix: Solid

Date Received: 07/14/22 15:07

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		07/14/22 16:20	07/15/22 15:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:20	07/15/22 15:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:20	07/15/22 15:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/22 16:20	07/15/22 15:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:20	07/15/22 15:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/22 16:20	07/15/22 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	07/14/22 16:20	07/15/22 15:48	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/14/22 16:20	07/15/22 15:48	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			07/18/22 13:45	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			07/15/22 10:13	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		07/14/22 16:33	07/14/22 23:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/14/22 23:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/14/22 23:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	07/14/22 16:33	07/14/22 23:02	1
o-Terphenyl	106		70 - 130	07/14/22 16:33	07/14/22 23:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	864		4.99		mg/Kg			07/16/22 09:29	1

Client Sample ID: H-3 (0-6")

Lab Sample ID: 880-16938-6

Date Collected: 07/14/22 00:00

Matrix: Solid

Date Received: 07/14/22 15:07

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		07/14/22 16:20	07/15/22 16:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:20	07/15/22 16:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:20	07/15/22 16:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 16:20	07/15/22 16:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:20	07/15/22 16:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 16:20	07/15/22 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	07/14/22 16:20	07/15/22 16:08	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/14/22 16:20	07/15/22 16:08	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

Client Sample ID: H-3 (0-6")

Lab Sample ID: 880-16938-6

Date Collected: 07/14/22 00:00

Matrix: Solid

Date Received: 07/14/22 15:07

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/18/22 13:45	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			07/15/22 10:13	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		07/14/22 16:33	07/14/22 23:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/14/22 23:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/14/22 23:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				07/14/22 16:33	07/14/22 23:23	1
o-Terphenyl	114		70 - 130				07/14/22 16:33	07/14/22 23:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		4.97		mg/Kg			07/16/22 09:53	1

Client Sample ID: H-4 (0-6")

Lab Sample ID: 880-16938-7

Date Collected: 07/14/22 00:00

Matrix: Solid

Date Received: 07/14/22 15:07

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		07/14/22 16:20	07/15/22 20:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:20	07/15/22 20:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:20	07/15/22 20:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/22 16:20	07/15/22 20:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:20	07/15/22 20:02	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/22 16:20	07/15/22 20:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				07/14/22 16:20	07/15/22 20:02	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/14/22 16:20	07/15/22 20:02	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			07/18/22 13:45	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			07/15/22 10:13	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		07/14/22 16:33	07/14/22 23:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/22 16:33	07/14/22 23:44	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

Client Sample ID: H-4 (0-6")

Lab Sample ID: 880-16938-7

Date Collected: 07/14/22 00:00

Matrix: Solid

Date Received: 07/14/22 15:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/22 16:33	07/14/22 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	07/14/22 16:33	07/14/22 23:44	1
o-Terphenyl	108		70 - 130	07/14/22 16:33	07/14/22 23:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	149		4.96		mg/Kg			07/16/22 10:00	1

Surrogate Summary

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-16938-1	S-1 (0-3")	141 S1+	66 S1-
880-16938-2	S-1 (6")	115	78
880-16938-3	S-1 (1')	107	95
880-16938-3 MS	S-1 (1')	108	94
880-16938-3 MSD	S-1 (1')	104	99
880-16938-4	H-1 (0-6")	110	97
880-16938-5	H-2 (0-6")	107	93
880-16938-6	H-3 (0-6")	104	99
880-16938-7	H-4 (0-6")	107	97
880-16984-A-1-C MS	Matrix Spike	113	104
880-16984-A-1-D MSD	Matrix Spike Duplicate	111	88
880-17011-A-1-D MS	Matrix Spike	122	79
880-17011-A-1-E MSD	Matrix Spike Duplicate	124	80
LCS 880-29770/1-A	Lab Control Sample	105	91
LCS 880-29886/1-A	Lab Control Sample	100	103
LCS 880-29987/1-A	Lab Control Sample	119	90
LCSD 880-29770/2-A	Lab Control Sample Dup	116	101
LCSD 880-29886/2-A	Lab Control Sample Dup	90	87
LCSD 880-29987/2-A	Lab Control Sample Dup	127	92
MB 880-29770/5-A	Method Blank	97	96
MB 880-29886/5-A	Method Blank	79	88
MB 880-29987/5-A	Method Blank	87	84
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-16938-1	S-1 (0-3")	95	120
880-16938-1 MS	S-1 (0-3")	185 S1+	457 S1+
880-16938-1 MSD	S-1 (0-3")	173 S1+	439 S1+
880-16938-2	S-1 (6")	95	143 S1+
880-16938-3	S-1 (1')	88	101
880-16938-4	H-1 (0-6")	90	104
880-16938-5	H-2 (0-6")	92	106
880-16938-6	H-3 (0-6")	99	114
880-16938-7	H-4 (0-6")	93	108
LCS 880-29771/2-A	Lab Control Sample	98	115
LCSD 880-29771/3-A	Lab Control Sample Dup	89	104
MB 880-29771/1-A	Method Blank	100	119
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-29770/5-A

Matrix: Solid

Analysis Batch: 29845

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29770

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:20	07/15/22 14:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:20	07/15/22 14:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:20	07/15/22 14:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 16:20	07/15/22 14:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:20	07/15/22 14:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 16:20	07/15/22 14:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/14/22 16:20	07/15/22 14:37	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/14/22 16:20	07/15/22 14:37	1

Lab Sample ID: LCS 880-29770/1-A

Matrix: Solid

Analysis Batch: 29845

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29770

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08786		mg/Kg		88	70 - 130
Toluene	0.100	0.08880		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09443		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1978		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1036		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-29770/2-A

Matrix: Solid

Analysis Batch: 29845

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29770

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09859		mg/Kg		99	70 - 130	12	35
Toluene	0.100	0.1026		mg/Kg		103	70 - 130	14	35
Ethylbenzene	0.100	0.1024		mg/Kg		102	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2173		mg/Kg		109	70 - 130	9	35
o-Xylene	0.100	0.1163		mg/Kg		116	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-16938-3 MS

Matrix: Solid

Analysis Batch: 29845

Client Sample ID: S-1 (1')

Prep Type: Total/NA

Prep Batch: 29770

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08357		mg/Kg		83	70 - 130
Toluene	<0.00200	U	0.100	0.08946		mg/Kg		89	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-16938-3 MS

Matrix: Solid

Analysis Batch: 29845

Client Sample ID: S-1 (1')

Prep Type: Total/NA

Prep Batch: 29770

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08724		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1898		mg/Kg		94	70 - 130
o-Xylene	<0.00200	U	0.100	0.1032		mg/Kg		103	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-16938-3 MSD

Matrix: Solid

Analysis Batch: 29845

Client Sample ID: S-1 (1')

Prep Type: Total/NA

Prep Batch: 29770

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.09057		mg/Kg		91	70 - 130	8	35
Toluene	<0.00200	U	0.0994	0.09063		mg/Kg		91	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0994	0.09024		mg/Kg		91	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1902		mg/Kg		95	70 - 130	0	35
o-Xylene	<0.00200	U	0.0994	0.1017		mg/Kg		102	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-29886/5-A

Matrix: Solid

Analysis Batch: 29895

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29886

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.000400		mg/Kg		07/17/22 12:29	07/18/22 13:14	1
Toluene	<0.000400	U	0.000400		mg/Kg		07/17/22 12:29	07/18/22 13:14	1
Ethylbenzene	<0.000400	U	0.000400		mg/Kg		07/17/22 12:29	07/18/22 13:14	1
m-Xylene & p-Xylene	<0.000800	U	0.000800		mg/Kg		07/17/22 12:29	07/18/22 13:14	1
o-Xylene	<0.000400	U	0.000400		mg/Kg		07/17/22 12:29	07/18/22 13:14	1
Xylenes, Total	<0.000800	U	0.000800		mg/Kg		07/17/22 12:29	07/18/22 13:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	07/17/22 12:29	07/18/22 13:14	1
1,4-Difluorobenzene (Surr)	88		70 - 130	07/17/22 12:29	07/18/22 13:14	1

Lab Sample ID: LCS 880-29886/1-A

Matrix: Solid

Analysis Batch: 29895

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29886

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1136		mg/Kg		114	70 - 130
Toluene	0.100	0.09979		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1044		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2057		mg/Kg		103	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-29886/1-A

Matrix: Solid

Analysis Batch: 29895

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29886

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1101		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-29886/2-A

Matrix: Solid

Analysis Batch: 29895

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29886

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08653		mg/Kg		87	70 - 130	27	35
Toluene	0.100	0.08126		mg/Kg		81	70 - 130	20	35
Ethylbenzene	0.100	0.08703		mg/Kg		87	70 - 130	18	35
m-Xylene & p-Xylene	0.200	0.1740		mg/Kg		87	70 - 130	17	35
o-Xylene	0.100	0.09271		mg/Kg		93	70 - 130	17	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 880-16984-A-1-C MS

Matrix: Solid

Analysis Batch: 29895

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 29886

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.09726		mg/Kg		96	70 - 130
Toluene	<0.00199	U	0.101	0.1008		mg/Kg		100	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.1073		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2096		mg/Kg		104	70 - 130
o-Xylene	<0.00199	U	0.101	0.1131		mg/Kg		112	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-16984-A-1-D MSD

Matrix: Solid

Analysis Batch: 29895

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 29886

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.09709		mg/Kg		97	70 - 130	0	35
Toluene	<0.00199	U	0.101	0.09884		mg/Kg		98	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.101	0.1031		mg/Kg		102	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2037		mg/Kg		101	70 - 130	3	35
o-Xylene	<0.00199	U	0.101	0.1081		mg/Kg		107	70 - 130	5	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-16984-A-1-D MSD

Matrix: Solid

Analysis Batch: 29895

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 29886

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: MB 880-29987/5-A

Matrix: Solid

Analysis Batch: 30016

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29987

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.000400	U	0.000400		mg/Kg		07/18/22 15:14	07/19/22 11:53	1	
Toluene	<0.000400	U	0.000400		mg/Kg		07/18/22 15:14	07/19/22 11:53	1	
Ethylbenzene	<0.000400	U	0.000400		mg/Kg		07/18/22 15:14	07/19/22 11:53	1	
m-Xylene & p-Xylene	<0.000800	U	0.000800		mg/Kg		07/18/22 15:14	07/19/22 11:53	1	
o-Xylene	<0.000400	U	0.000400		mg/Kg		07/18/22 15:14	07/19/22 11:53	1	
Xylenes, Total	<0.000800	U	0.000800		mg/Kg		07/18/22 15:14	07/19/22 11:53	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				07/18/22 15:14	07/19/22 11:53	1	
1,4-Difluorobenzene (Surr)	84		70 - 130				07/18/22 15:14	07/19/22 11:53	1	

Lab Sample ID: LCS 880-29987/1-A

Matrix: Solid

Analysis Batch: 30016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29987

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.1014		mg/Kg		101	70 - 130			
Toluene	0.100	0.1022		mg/Kg		102	70 - 130			
Ethylbenzene	0.100	0.1103		mg/Kg		110	70 - 130			
m-Xylene & p-Xylene	0.200	0.2162		mg/Kg		108	70 - 130			
o-Xylene	0.100	0.1134		mg/Kg		113	70 - 130			
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	119		70 - 130							
1,4-Difluorobenzene (Surr)	90		70 - 130							

Lab Sample ID: LCSD 880-29987/2-A

Matrix: Solid

Analysis Batch: 30016

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29987

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1075		mg/Kg		108	70 - 130	6	35	
Toluene	0.100	0.1084		mg/Kg		108	70 - 130	6	35	
Ethylbenzene	0.100	0.1173		mg/Kg		117	70 - 130	6	35	
m-Xylene & p-Xylene	0.200	0.2293		mg/Kg		115	70 - 130	6	35	
o-Xylene	0.100	0.1192		mg/Kg		119	70 - 130	5	35	
	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	127		70 - 130							

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-29987/2-A

Matrix: Solid

Analysis Batch: 30016

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29987

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-17011-A-1-D MS

Matrix: Solid

Analysis Batch: 30016

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 29987

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.0998	0.05315	F1	mg/Kg		53	70 - 130	
Toluene	<0.00200	U F1	0.0998	0.05812	F1	mg/Kg		58	70 - 130	
Ethylbenzene	<0.00200	U F1	0.0998	0.06366	F1	mg/Kg		64	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1212	F1	mg/Kg		61	70 - 130	
o-Xylene	<0.00200	U F1	0.0998	0.06845	F1	mg/Kg		69	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: 880-17011-A-1-E MSD

Matrix: Solid

Analysis Batch: 30016

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 29987

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00200	U F1	0.100	0.03929	F1	mg/Kg		39	70 - 130	30	35	
Toluene	<0.00200	U F1	0.100	0.04309	F1	mg/Kg		43	70 - 130	30	35	
Ethylbenzene	<0.00200	U F1	0.100	0.04664	F1	mg/Kg		47	70 - 130	31	35	
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.08957	F1	mg/Kg		45	70 - 130	30	35	
o-Xylene	<0.00200	U F1	0.100	0.05185	F1	mg/Kg		52	70 - 130	28	35	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

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

Lab Sample ID: MB 880-29771/1-A

Matrix: Solid

Analysis Batch: 29692

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29771

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/14/22 19:51	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/14/22 19:51	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/14/22 19:51	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1-Chlorooctane	100		70 - 130	07/14/22 16:33	07/14/22 19:51	1				
o-Terphenyl	119		70 - 130	07/14/22 16:33	07/14/22 19:51	1				

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-29771/2-A

Matrix: Solid

Analysis Batch: 29692

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29771

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	1036		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	906.0		mg/Kg		91	70 - 130		

Lab Sample ID: LCSD 880-29771/3-A

Matrix: Solid

Analysis Batch: 29692

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29771

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	936.7		mg/Kg		94	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	858.2		mg/Kg		86	70 - 130	5	20

Lab Sample ID: 880-16938-1 MS

Matrix: Solid

Analysis Batch: 29692

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

Prep Type: Total/NA

Prep Batch: 29771

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1990	F1 F2	1000	1076000	E F1	mg/Kg		10740	70 - 130		
								8			
Diesel Range Organics (Over C10-C28)	19100		1000	21270	E 4	mg/Kg		218	70 - 130		

Lab Sample ID: 880-16938-1 MSD

Matrix: Solid

Analysis Batch: 29692

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

Prep Type: Total/NA

Prep Batch: 29771

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1990	F1 F2	999	2431	F1 F2	mg/Kg		44	70 - 130	199	20
Diesel Range Organics (Over C10-C28)	19100		999	21080	E 4	mg/Kg		199	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	173	S1+	70 - 130								

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-16938-1 MSD

Matrix: Solid

Analysis Batch: 29692

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

Prep Type: Total/NA

Prep Batch: 29771

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	439	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29855/1-A

Matrix: Solid

Analysis Batch: 29880

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00		mg/Kg			07/16/22 08:18		1

Lab Sample ID: LCS 880-29855/2-A

Matrix: Solid

Analysis Batch: 29880

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte		Spike	LCS	LCS				%Rec		
		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride		250	265.4		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-29855/3-A

Matrix: Solid

Analysis Batch: 29880

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte		Spike	LCSD	LCSD				%Rec		RPD
		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		250	265.9		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-16938-1 MS

Matrix: Solid

Analysis Batch: 29880

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

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS				%Rec		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	69.1	F1	249	350.4	F1	mg/Kg		113	90 - 110		

Lab Sample ID: 880-16938-1 MSD

Matrix: Solid

Analysis Batch: 29880

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

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	69.1	F1	249	353.9	F1	mg/Kg		114	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 29770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16938-1	S-1 (0-3")	Total/NA	Solid	5035	
880-16938-2	S-1 (6")	Total/NA	Solid	5035	
880-16938-3	S-1 (1')	Total/NA	Solid	5035	
880-16938-4	H-1 (0-6")	Total/NA	Solid	5035	
880-16938-5	H-2 (0-6")	Total/NA	Solid	5035	
880-16938-6	H-3 (0-6")	Total/NA	Solid	5035	
880-16938-7	H-4 (0-6")	Total/NA	Solid	5035	
MB 880-29770/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29770/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29770/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16938-3 MS	S-1 (1')	Total/NA	Solid	5035	
880-16938-3 MSD	S-1 (1')	Total/NA	Solid	5035	

Analysis Batch: 29845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16938-1	S-1 (0-3")	Total/NA	Solid	8021B	29770
880-16938-2	S-1 (6")	Total/NA	Solid	8021B	29770
880-16938-3	S-1 (1')	Total/NA	Solid	8021B	29770
880-16938-4	H-1 (0-6")	Total/NA	Solid	8021B	29770
880-16938-5	H-2 (0-6")	Total/NA	Solid	8021B	29770
880-16938-6	H-3 (0-6")	Total/NA	Solid	8021B	29770
880-16938-7	H-4 (0-6")	Total/NA	Solid	8021B	29770
MB 880-29770/5-A	Method Blank	Total/NA	Solid	8021B	29770
LCS 880-29770/1-A	Lab Control Sample	Total/NA	Solid	8021B	29770
LCSD 880-29770/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29770
880-16938-3 MS	S-1 (1')	Total/NA	Solid	8021B	29770
880-16938-3 MSD	S-1 (1')	Total/NA	Solid	8021B	29770

Prep Batch: 29886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-29886/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29886/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29886/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16984-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-16984-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 29895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-29886/5-A	Method Blank	Total/NA	Solid	8021B	29886
LCS 880-29886/1-A	Lab Control Sample	Total/NA	Solid	8021B	29886
LCSD 880-29886/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29886
880-16984-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	29886
880-16984-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29886

Analysis Batch: 29949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16938-1	S-1 (0-3")	Total/NA	Solid	Total BTEX	
880-16938-2	S-1 (6")	Total/NA	Solid	Total BTEX	
880-16938-3	S-1 (1')	Total/NA	Solid	Total BTEX	
880-16938-4	H-1 (0-6")	Total/NA	Solid	Total BTEX	
880-16938-5	H-2 (0-6")	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

GC VOA (Continued)

Analysis Batch: 29949 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16938-6	H-3 (0-6")	Total/NA	Solid	Total BTEX	
880-16938-7	H-4 (0-6")	Total/NA	Solid	Total BTEX	

Prep Batch: 29987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16938-1	S-1 (0-3")	Total/NA	Solid	5035	
MB 880-29987/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29987/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29987/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17011-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-17011-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 30016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16938-1	S-1 (0-3")	Total/NA	Solid	8021B	29987
MB 880-29987/5-A	Method Blank	Total/NA	Solid	8021B	29987
LCS 880-29987/1-A	Lab Control Sample	Total/NA	Solid	8021B	29987
LCSD 880-29987/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29987
880-17011-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	29987
880-17011-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29987

GC Semi VOA

Analysis Batch: 29692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16938-1	S-1 (0-3")	Total/NA	Solid	8015B NM	29771
880-16938-2	S-1 (6")	Total/NA	Solid	8015B NM	29771
880-16938-3	S-1 (1')	Total/NA	Solid	8015B NM	29771
880-16938-4	H-1 (0-6")	Total/NA	Solid	8015B NM	29771
880-16938-5	H-2 (0-6")	Total/NA	Solid	8015B NM	29771
880-16938-6	H-3 (0-6")	Total/NA	Solid	8015B NM	29771
880-16938-7	H-4 (0-6")	Total/NA	Solid	8015B NM	29771
MB 880-29771/1-A	Method Blank	Total/NA	Solid	8015B NM	29771
LCS 880-29771/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29771
LCSD 880-29771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29771
880-16938-1 MS	S-1 (0-3")	Total/NA	Solid	8015B NM	29771
880-16938-1 MSD	S-1 (0-3")	Total/NA	Solid	8015B NM	29771

Prep Batch: 29771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16938-1	S-1 (0-3")	Total/NA	Solid	8015NM Prep	
880-16938-2	S-1 (6")	Total/NA	Solid	8015NM Prep	
880-16938-3	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-16938-4	H-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-16938-5	H-2 (0-6")	Total/NA	Solid	8015NM Prep	
880-16938-6	H-3 (0-6")	Total/NA	Solid	8015NM Prep	
880-16938-7	H-4 (0-6")	Total/NA	Solid	8015NM Prep	
MB 880-29771/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29771/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-16938-1 MS	S-1 (0-3")	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Prep Batch: 29771 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16938-1 MSD	S-1 (0-3")	Total/NA	Solid	8015NM Prep	

Analysis Batch: 29834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16938-1	S-1 (0-3")	Total/NA	Solid	8015 NM	
880-16938-2	S-1 (6")	Total/NA	Solid	8015 NM	
880-16938-3	S-1 (1')	Total/NA	Solid	8015 NM	
880-16938-4	H-1 (0-6")	Total/NA	Solid	8015 NM	
880-16938-5	H-2 (0-6")	Total/NA	Solid	8015 NM	
880-16938-6	H-3 (0-6")	Total/NA	Solid	8015 NM	
880-16938-7	H-4 (0-6")	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 29855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16938-1	S-1 (0-3")	Soluble	Solid	DI Leach	
880-16938-2	S-1 (6")	Soluble	Solid	DI Leach	
880-16938-3	S-1 (1')	Soluble	Solid	DI Leach	
880-16938-4	H-1 (0-6")	Soluble	Solid	DI Leach	
880-16938-5	H-2 (0-6")	Soluble	Solid	DI Leach	
880-16938-6	H-3 (0-6")	Soluble	Solid	DI Leach	
880-16938-7	H-4 (0-6")	Soluble	Solid	DI Leach	
MB 880-29855/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29855/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29855/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16938-1 MS	S-1 (0-3")	Soluble	Solid	DI Leach	
880-16938-1 MSD	S-1 (0-3")	Soluble	Solid	DI Leach	

Analysis Batch: 29880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16938-1	S-1 (0-3")	Soluble	Solid	300.0	29855
880-16938-2	S-1 (6")	Soluble	Solid	300.0	29855
880-16938-3	S-1 (1')	Soluble	Solid	300.0	29855
880-16938-4	H-1 (0-6")	Soluble	Solid	300.0	29855
880-16938-5	H-2 (0-6")	Soluble	Solid	300.0	29855
880-16938-6	H-3 (0-6")	Soluble	Solid	300.0	29855
880-16938-7	H-4 (0-6")	Soluble	Solid	300.0	29855
MB 880-29855/1-A	Method Blank	Soluble	Solid	300.0	29855
LCS 880-29855/2-A	Lab Control Sample	Soluble	Solid	300.0	29855
LCSD 880-29855/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29855
880-16938-1 MS	S-1 (0-3")	Soluble	Solid	300.0	29855
880-16938-1 MSD	S-1 (0-3")	Soluble	Solid	300.0	29855

Lab Chronicle

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-16938-1

Date Collected: 07/14/22 00:00

Matrix: Solid

Date Received: 07/14/22 15:07

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	29770	07/14/22 16:20	MR	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	29845	07/15/22 16:29	MR	XEN MID
Total/NA	Prep	5035			5.03 g	5 mL	29987	07/18/22 15:14	MR	XEN MID
Total/NA	Analysis	8021B		500			30016	07/19/22 22:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29949	07/18/22 13:45	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29834	07/15/22 10:13	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29771	07/14/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		5			29692	07/15/22 07:16	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29855	07/15/22 12:12	SMC	XEN MID
Soluble	Analysis	300.0		1			29880	07/16/22 08:42	CH	XEN MID

Client Sample ID: S-1 (6")

Lab Sample ID: 880-16938-2

Date Collected: 07/14/22 00:00

Matrix: Solid

Date Received: 07/14/22 15:07

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	29770	07/14/22 16:20	MR	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	29845	07/15/22 16:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29949	07/18/22 13:45	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29834	07/15/22 10:13	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29771	07/14/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		5			29692	07/15/22 07:37	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29855	07/15/22 12:12	SMC	XEN MID
Soluble	Analysis	300.0		1			29880	07/16/22 09:05	CH	XEN MID

Client Sample ID: S-1 (1')

Lab Sample ID: 880-16938-3

Date Collected: 07/14/22 00:00

Matrix: Solid

Date Received: 07/14/22 15:07

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	29770	07/14/22 16:20	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29845	07/15/22 15:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29949	07/18/22 13:45	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29834	07/15/22 10:13	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29771	07/14/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29692	07/14/22 22:20	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29855	07/15/22 12:12	SMC	XEN MID
Soluble	Analysis	300.0		1			29880	07/16/22 09:13	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

Client Sample ID: H-1 (0-6")

Lab Sample ID: 880-16938-4

Date Collected: 07/14/22 00:00

Matrix: Solid

Date Received: 07/14/22 15:07

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	29770	07/14/22 16:20	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29845	07/15/22 15:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29949	07/18/22 13:45	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29834	07/15/22 10:13	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29771	07/14/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29692	07/14/22 22:41	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	29855	07/15/22 12:12	SMC	XEN MID
Soluble	Analysis	300.0		1			29880	07/16/22 09:21	CH	XEN MID

Client Sample ID: H-2 (0-6")

Lab Sample ID: 880-16938-5

Date Collected: 07/14/22 00:00

Matrix: Solid

Date Received: 07/14/22 15:07

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	29770	07/14/22 16:20	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29845	07/15/22 15:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29949	07/18/22 13:45	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29834	07/15/22 10:13	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29771	07/14/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29692	07/14/22 23:02	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29855	07/15/22 12:12	SMC	XEN MID
Soluble	Analysis	300.0		1			29880	07/16/22 09:29	CH	XEN MID

Client Sample ID: H-3 (0-6")

Lab Sample ID: 880-16938-6

Date Collected: 07/14/22 00:00

Matrix: Solid

Date Received: 07/14/22 15:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29770	07/14/22 16:20	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29845	07/15/22 16:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29949	07/18/22 13:45	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29834	07/15/22 10:13	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29771	07/14/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29692	07/14/22 23:23	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29855	07/15/22 12:12	SMC	XEN MID
Soluble	Analysis	300.0		1			29880	07/16/22 09:53	CH	XEN MID

Client Sample ID: H-4 (0-6")

Lab Sample ID: 880-16938-7

Date Collected: 07/14/22 00:00

Matrix: Solid

Date Received: 07/14/22 15:07

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	29770	07/14/22 16:20	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29845	07/15/22 20:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29949	07/18/22 13:45	SM	XEN MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

Client Sample ID: H-4 (0-6")
Date Collected: 07/14/22 00:00
Date Received: 07/14/22 15:07

Lab Sample ID: 880-16938-7
Matrix: Solid

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			29834	07/15/22 10:13	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29771	07/14/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29692	07/14/22 23:44	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	29855	07/15/22 12:12	SMC	XEN MID
Soluble	Analysis	300.0		1			29880	07/16/22 10:00	CH	XEN MID

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-16938-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-16938-1	S-1 (0-3")	Solid	07/14/22 00:00	07/14/22 15:07
880-16938-2	S-1 (6")	Solid	07/14/22 00:00	07/14/22 15:07
880-16938-3	S-1 (1')	Solid	07/14/22 00:00	07/14/22 15:07
880-16938-4	H-1 (0-6")	Solid	07/14/22 00:00	07/14/22 15:07
880-16938-5	H-2 (0-6")	Solid	07/14/22 00:00	07/14/22 15:07
880-16938-6	H-3 (0-6")	Solid	07/14/22 00:00	07/14/22 15:07
880-16938-7	H-4 (0-6")	Solid	07/14/22 00:00	07/14/22 15:07

Chain of Custody

Work Order No: 16938

Page 1 of 1

Project Manager		Clinton Merritt		Bill to: (if different)			
Company Name:		Carmora Resources		Company Name:			
Address:		310 W Wall St Ste 415		Address:			
City, State ZIP:		Midland, TX 79701		City, State ZIP:			
Phone:		432-813-6823		Email:			
Project Name:		ZHU 2331-1 Release		Turn Around			
Project Number:		1082		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			
Project Location:		Eddy Co, NM		Due Date		72 Hrs	
Sampler's Name:		CCM		TAT starts the day received by the lab if received by 4:30pm			
PO #:							
SAMPLE RECEIPT		Temp Blank:		Yes (No)		Wet Ice	
Received Initial:		Yes (No)		Thermometer ID		Yes (No)	
Cooler/Custody Seals:		Yes (No)		Correction Factor		Yes (No)	
Sample Custody Seals:		Yes (No)		Temperature Reading		Yes (No)	
Total Containers:		Yes (No)		Corrected Temperature:		Yes (No)	
Sample Identification		Date		Time		Soil	
S-1 (0-3")		7/14/2022				X	
S-1 (6")		7/14/2022				X	
S-1 (1')		7/14/2022				X	
H-1 (0-6")		7/14/2022				X	
H-2 (0-6")		7/14/2022				X	
H-3 (0-6")		7/14/2022				X	
H-4 (0-6")		7/14/2022				X	
Comments							
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
		7/14/22				1807	

880-16938 Chain of Custody

Parameters		Pres. Code		ANALYSIS REQUEST		Preservative Codes	
BTEX 8021B						None, NO	
TPH 8015M (GRO + DRO + MRO)						Cool Cool	
Chloride 300.0						HCL HC	
						H ₂ SO ₄ H ₂	
						H ₃ PO ₄ HP	
						NaHSO ₄ NABIS	
						Na ₂ S ₂ O ₃ NaSO ₃	
						Zn Acetate+NaOH Zn	
						NaOH+Ascorbic Acid SAPC	
Sample Comments							

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-16938-1

SDG Number: Eddy Co, NM

Login Number: 16938

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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-17728-1

Laboratory Sample Delivery Group: Eddy Co, NM
Client Project/Site: ZHU 2331-1 Release

For:

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

Attn: Ashton Thielke

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

8/5/2022 12:53:11 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

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: ZHU 2331-1 Release

Laboratory Job ID: 880-17728-1
SDG: Eddy Co, NM

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	16
Lab Chronicle	19
Certification Summary	21
Method Summary	22
Sample Summary	23
Chain of Custody	24
Receipt Checklists	25

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Definitions/Glossary

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

Job ID: 880-17728-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-17728-1**

Receipt

The samples were received on 8/3/2022 5:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-31465 and analytical batch 880-31452 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

Client Sample ID: CS-1 (1')

Lab Sample ID: 880-17728-1

Date Collected: 08/03/22 00:00

Matrix: Solid

Date Received: 08/03/22 17:14

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		08/04/22 08:51	08/04/22 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/22 08:51	08/04/22 11:14	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		08/04/22 08:51	08/04/22 11:14	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		08/04/22 08:51	08/04/22 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/22 08:51	08/04/22 11:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/04/22 08:51	08/04/22 11:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/04/22 08:51	08/04/22 11:14	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/04/22 08:51	08/04/22 11:14	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			08/04/22 16:11	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			08/05/22 13:04	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	50.0		mg/Kg		08/04/22 16:40	08/05/22 03:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/04/22 16:40	08/05/22 03:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/04/22 16:40	08/05/22 03:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130	08/04/22 16:40	08/05/22 03:30	1
o-Terphenyl	80		70 - 130	08/04/22 16:40	08/05/22 03:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.08		4.97		mg/Kg			08/04/22 15:52	1

Client Sample ID: SW-1 (1')

Lab Sample ID: 880-17728-2

Date Collected: 08/03/22 00:00

Matrix: Solid

Date Received: 08/03/22 17:14

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		08/04/22 08:51	08/04/22 11:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/04/22 08:51	08/04/22 11:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/04/22 08:51	08/04/22 11:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/04/22 08:51	08/04/22 11:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/04/22 08:51	08/04/22 11:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/04/22 08:51	08/04/22 11:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/04/22 08:51	08/04/22 11:35	1
1,4-Difluorobenzene (Surr)	83		70 - 130	08/04/22 08:51	08/04/22 11:35	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

Client Sample ID: SW-1 (1')

Lab Sample ID: 880-17728-2

Date Collected: 08/03/22 00:00

Matrix: Solid

Date Received: 08/03/22 17:14

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			08/04/22 16:11	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			08/05/22 13:04	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	50.0		mg/Kg		08/04/22 16:40	08/05/22 03:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/04/22 16:40	08/05/22 03:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/04/22 16:40	08/05/22 03:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				08/04/22 16:40	08/05/22 03:52	1
o-Terphenyl	79		70 - 130				08/04/22 16:40	08/05/22 03:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.07		5.02		mg/Kg			08/04/22 16:00	1

Client Sample ID: SW-2 (1')

Lab Sample ID: 880-17728-3

Date Collected: 08/03/22 00:00

Matrix: Solid

Date Received: 08/03/22 17:14

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		08/04/22 08:51	08/04/22 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/22 08:51	08/04/22 11:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/22 08:51	08/04/22 11:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/04/22 08:51	08/04/22 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/22 08:51	08/04/22 11:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/04/22 08:51	08/04/22 11:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				08/04/22 08:51	08/04/22 11:56	1
1,4-Difluorobenzene (Surr)	89		70 - 130				08/04/22 08:51	08/04/22 11:56	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			08/04/22 16:11	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			08/05/22 13:04	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	49.9		mg/Kg		08/04/22 16:40	08/05/22 04:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/04/22 16:40	08/05/22 04:14	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

Client Sample ID: SW-2 (1')

Lab Sample ID: 880-17728-3

Date Collected: 08/03/22 00:00

Matrix: Solid

Date Received: 08/03/22 17:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/04/22 16:40	08/05/22 04:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				08/04/22 16:40	08/05/22 04:14	1
o-Terphenyl	78		70 - 130				08/04/22 16:40	08/05/22 04:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.9		5.05		mg/Kg			08/04/22 16:07	1

Client Sample ID: SW-3 (1')

Lab Sample ID: 880-17728-4

Date Collected: 08/03/22 00:00

Matrix: Solid

Date Received: 08/03/22 17:14

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		08/04/22 08:51	08/04/22 12:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/22 08:51	08/04/22 12:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/22 08:51	08/04/22 12:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/04/22 08:51	08/04/22 12:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/22 08:51	08/04/22 12:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/04/22 08:51	08/04/22 12:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				08/04/22 08:51	08/04/22 12:16	1
1,4-Difluorobenzene (Surr)	89		70 - 130				08/04/22 08:51	08/04/22 12:16	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			08/04/22 16:11	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			08/05/22 13:04	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	49.8		mg/Kg		08/04/22 16:40	08/05/22 04:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/04/22 16:40	08/05/22 04:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/04/22 16:40	08/05/22 04:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				08/04/22 16:40	08/05/22 04:36	1
o-Terphenyl	92		70 - 130				08/04/22 16:40	08/05/22 04:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.2		4.99		mg/Kg			08/04/22 16:16	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

Client Sample ID: SW-4 (1')

Lab Sample ID: 880-17728-5

Date Collected: 08/03/22 00:00

Matrix: Solid

Date Received: 08/03/22 17:14

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		08/04/22 08:51	08/04/22 12:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/04/22 08:51	08/04/22 12:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/04/22 08:51	08/04/22 12:37	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/04/22 08:51	08/04/22 12:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/04/22 08:51	08/04/22 12:37	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/04/22 08:51	08/04/22 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/04/22 08:51	08/04/22 12:37	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/04/22 08:51	08/04/22 12:37	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			08/04/22 16:11	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			08/05/22 13:04	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	50.0		mg/Kg		08/04/22 16:40	08/05/22 04:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/04/22 16:40	08/05/22 04:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/04/22 16:40	08/05/22 04:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	60	S1-	70 - 130	08/04/22 16:40	08/05/22 04:58	1
o-Terphenyl	61	S1-	70 - 130	08/04/22 16:40	08/05/22 04:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.3		5.01		mg/Kg			08/04/22 16:23	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-17728-1	CS-1 (1')	108	87				
880-17728-1 MS	CS-1 (1')	105	97				
880-17728-1 MSD	CS-1 (1')	102	97				
880-17728-2	SW-1 (1')	109	83				
880-17728-3	SW-2 (1')	112	89				
880-17728-4	SW-3 (1')	113	89				
880-17728-5	SW-4 (1')	111	91				
890-2675-A-1-E MS	Matrix Spike	50 S1-	103				
890-2675-A-1-F MSD	Matrix Spike Duplicate	99	96				
LCS 880-31415/1-A	Lab Control Sample	95	97				
LCS 880-31465/1-A	Lab Control Sample	103	94				
LCSD 880-31415/2-A	Lab Control Sample Dup	103	100				
LCSD 880-31465/2-A	Lab Control Sample Dup	106	97				
MB 880-31415/5-A	Method Blank	98	90				
MB 880-31465/5-A	Method Blank	100	91				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-17728-1	CS-1 (1')	63 S1-	80				
880-17728-2	SW-1 (1')	67 S1-	79				
880-17728-3	SW-2 (1')	68 S1-	78				
880-17728-4	SW-3 (1')	80	92				
880-17728-5	SW-4 (1')	60 S1-	61 S1-				
890-2694-A-1-B MS	Matrix Spike	68 S1-	69 S1-				
890-2694-A-1-C MSD	Matrix Spike Duplicate	80	82				
LCS 880-31442/2-A	Lab Control Sample	87	101				
LCSD 880-31442/3-A	Lab Control Sample Dup	83	95				
MB 880-31442/1-A	Method Blank	89	113				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31415/5-A

Matrix: Solid

Analysis Batch: 31452

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/03/22 11:47	08/04/22 22:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/03/22 11:47	08/04/22 22:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/03/22 11:47	08/04/22 22:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/03/22 11:47	08/04/22 22:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/03/22 11:47	08/04/22 22:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/03/22 11:47	08/04/22 22:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	08/03/22 11:47	08/04/22 22:09	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/03/22 11:47	08/04/22 22:09	1

Lab Sample ID: LCS 880-31415/1-A

Matrix: Solid

Analysis Batch: 31452

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07415		mg/Kg		74	70 - 130
Toluene	0.100	0.08000		mg/Kg		80	70 - 130
Ethylbenzene	0.100	0.08374		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1516		mg/Kg		76	70 - 130
o-Xylene	0.100	0.09408		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-31415/2-A

Matrix: Solid

Analysis Batch: 31452

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31415

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09442		mg/Kg		94	70 - 130	24	35
Toluene	0.100	0.09278		mg/Kg		93	70 - 130	15	35
Ethylbenzene	0.100	0.09278		mg/Kg		93	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1873		mg/Kg		94	70 - 130	21	35
o-Xylene	0.100	0.1101		mg/Kg		110	70 - 130	16	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-2675-A-1-E MS

Matrix: Solid

Analysis Batch: 31452

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31415

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09578		mg/Kg		95	70 - 130
Toluene	<0.00201	U	0.100	0.09337		mg/Kg		93	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-2675-A-1-E MS

Matrix: Solid

Analysis Batch: 31452

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31415

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.09244		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1855		mg/Kg		92	70 - 130
o-Xylene	<0.00201	U	0.100	0.1073		mg/Kg		107	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	50	S1-	70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-2675-A-1-F MSD

Matrix: Solid

Analysis Batch: 31452

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31415

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	0.08952		mg/Kg		90	70 - 130	7	35
Toluene	<0.00201	U	0.0998	0.08599		mg/Kg		86	70 - 130	8	35
Ethylbenzene	<0.00201	U	0.0998	0.08552		mg/Kg		86	70 - 130	8	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1709		mg/Kg		86	70 - 130	8	35
o-Xylene	<0.00201	U	0.0998	0.09674		mg/Kg		97	70 - 130	10	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-31465/5-A

Matrix: Solid

Analysis Batch: 31452

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31465

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/04/22 08:51	08/04/22 10:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/22 08:51	08/04/22 10:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/22 08:51	08/04/22 10:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/04/22 08:51	08/04/22 10:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/22 08:51	08/04/22 10:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/04/22 08:51	08/04/22 10:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/04/22 08:51	08/04/22 10:53	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/04/22 08:51	08/04/22 10:53	1

Lab Sample ID: LCS 880-31465/1-A

Matrix: Solid

Analysis Batch: 31452

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09988		mg/Kg		100	70 - 130
Toluene	0.100	0.1006		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1038		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2107		mg/Kg		105	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-31465/1-A

Matrix: Solid

Analysis Batch: 31452

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1145		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-31465/2-A

Matrix: Solid

Analysis Batch: 31452

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31465

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09085		mg/Kg		91	70 - 130	9	35
Toluene	0.100	0.08782		mg/Kg		88	70 - 130	14	35
Ethylbenzene	0.100	0.09053		mg/Kg		91	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.1832		mg/Kg		92	70 - 130	14	35
o-Xylene	0.100	0.1004		mg/Kg		100	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-17728-1 MS

Matrix: Solid

Analysis Batch: 31452

Client Sample ID: CS-1 (1')

Prep Type: Total/NA

Prep Batch: 31465

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08136		mg/Kg		81	70 - 130
Toluene	<0.00200	U	0.100	0.07618		mg/Kg		76	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.07372		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1469		mg/Kg		73	70 - 130
o-Xylene	<0.00200	U	0.100	0.07974		mg/Kg		80	70 - 130

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

Lab Sample ID: 880-17728-1 MSD

Matrix: Solid

Analysis Batch: 31452

Client Sample ID: CS-1 (1')

Prep Type: Total/NA

Prep Batch: 31465

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0998	0.08732		mg/Kg		87	70 - 130	7	35
Toluene	<0.00200	U	0.0998	0.07748		mg/Kg		78	70 - 130	2	35
Ethylbenzene	<0.00200	U F1	0.0998	0.06936	F1	mg/Kg		69	70 - 130	6	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1380	F1	mg/Kg		69	70 - 130	6	35
o-Xylene	<0.00200	U	0.0998	0.07575		mg/Kg		76	70 - 130	5	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-17728-1 MSD

Matrix: Solid

Analysis Batch: 31452

Client Sample ID: CS-1 (1')

Prep Type: Total/NA

Prep Batch: 31465

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-31442/1-A

Matrix: Solid

Analysis Batch: 31457

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31442

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 16:40	08/04/22 19:53	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 16:40	08/04/22 19:53	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 16:40	08/04/22 19:53	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	89		70 - 130				08/03/22 16:40	08/04/22 19:53	1	
o-Terphenyl	113		70 - 130				08/03/22 16:40	08/04/22 19:53	1	

Lab Sample ID: LCS 880-31442/2-A

Matrix: Solid

Analysis Batch: 31457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31442

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	1004		mg/Kg		100	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	972.1		mg/Kg		97	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	87		70 - 130							
o-Terphenyl	101		70 - 130							

Lab Sample ID: LCSD 880-31442/3-A

Matrix: Solid

Analysis Batch: 31457

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31442

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	882.1		mg/Kg		88	70 - 130	13	20	
Diesel Range Organics (Over C10-C28)			1000	925.8		mg/Kg		93	70 - 130	5	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	83		70 - 130									
o-Terphenyl	95		70 - 130									

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-2694-A-1-B MS

Matrix: Solid

Analysis Batch: 31457

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31442

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	999	827.1		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	601	F1	999	1185	F1	mg/Kg		58	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	68	S1-	70 - 130						
o-Terphenyl	69	S1-	70 - 130						

Lab Sample ID: 890-2694-A-1-C MSD

Matrix: Solid

Analysis Batch: 31457

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31442

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	934.1		mg/Kg		91	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	601	F1	999	1431		mg/Kg		83	70 - 130	19	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	80		70 - 130								
o-Terphenyl	82		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31472/1-A

Matrix: Solid

Analysis Batch: 31509

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			08/04/22 14:18	1

Lab Sample ID: LCS 880-31472/2-A

Matrix: Solid

Analysis Batch: 31509

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	231.7		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-31472/3-A

Matrix: Solid

Analysis Batch: 31509

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	232.2		mg/Kg		93	90 - 110	0	20

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-17721-A-1-C MS

Matrix: Solid

Analysis Batch: 31509

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	314		1250	1554		mg/Kg		99	90 - 110		

Lab Sample ID: 880-17721-A-1-D MSD

Matrix: Solid

Analysis Batch: 31509

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	314		1250	1550		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-17727-A-1-B MS

Matrix: Solid

Analysis Batch: 31509

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	165		1240	1345		mg/Kg		95	90 - 110		

Lab Sample ID: 880-17727-A-1-C MSD

Matrix: Solid

Analysis Batch: 31509

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	165		1240	1345		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 31415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31415/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31415/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31415/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2675-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2675-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17728-1	CS-1 (1')	Total/NA	Solid	8021B	31465
880-17728-2	SW-1 (1')	Total/NA	Solid	8021B	31465
880-17728-3	SW-2 (1')	Total/NA	Solid	8021B	31465
880-17728-4	SW-3 (1')	Total/NA	Solid	8021B	31465
880-17728-5	SW-4 (1')	Total/NA	Solid	8021B	31465
MB 880-31415/5-A	Method Blank	Total/NA	Solid	8021B	31415
MB 880-31465/5-A	Method Blank	Total/NA	Solid	8021B	31465
LCS 880-31415/1-A	Lab Control Sample	Total/NA	Solid	8021B	31415
LCS 880-31465/1-A	Lab Control Sample	Total/NA	Solid	8021B	31465
LCSD 880-31415/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31415
LCSD 880-31465/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31465
880-17728-1 MS	CS-1 (1')	Total/NA	Solid	8021B	31465
880-17728-1 MSD	CS-1 (1')	Total/NA	Solid	8021B	31465
890-2675-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	31415
890-2675-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31415

Prep Batch: 31465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17728-1	CS-1 (1')	Total/NA	Solid	5035	
880-17728-2	SW-1 (1')	Total/NA	Solid	5035	
880-17728-3	SW-2 (1')	Total/NA	Solid	5035	
880-17728-4	SW-3 (1')	Total/NA	Solid	5035	
880-17728-5	SW-4 (1')	Total/NA	Solid	5035	
MB 880-31465/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31465/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31465/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17728-1 MS	CS-1 (1')	Total/NA	Solid	5035	
880-17728-1 MSD	CS-1 (1')	Total/NA	Solid	5035	

Analysis Batch: 31512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17728-1	CS-1 (1')	Total/NA	Solid	Total BTEX	
880-17728-2	SW-1 (1')	Total/NA	Solid	Total BTEX	
880-17728-3	SW-2 (1')	Total/NA	Solid	Total BTEX	
880-17728-4	SW-3 (1')	Total/NA	Solid	Total BTEX	
880-17728-5	SW-4 (1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 31442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17728-1	CS-1 (1')	Total/NA	Solid	8015NM Prep	
880-17728-2	SW-1 (1')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Prep Batch: 31442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17728-3	SW-2 (1')	Total/NA	Solid	8015NM Prep	
880-17728-4	SW-3 (1')	Total/NA	Solid	8015NM Prep	
880-17728-5	SW-4 (1')	Total/NA	Solid	8015NM Prep	
MB 880-31442/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31442/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31442/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2694-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2694-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 31457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17728-1	CS-1 (1')	Total/NA	Solid	8015B NM	31442
880-17728-2	SW-1 (1')	Total/NA	Solid	8015B NM	31442
880-17728-3	SW-2 (1')	Total/NA	Solid	8015B NM	31442
880-17728-4	SW-3 (1')	Total/NA	Solid	8015B NM	31442
880-17728-5	SW-4 (1')	Total/NA	Solid	8015B NM	31442
MB 880-31442/1-A	Method Blank	Total/NA	Solid	8015B NM	31442
LCS 880-31442/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31442
LCSD 880-31442/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31442
890-2694-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	31442
890-2694-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31442

Analysis Batch: 31591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17728-1	CS-1 (1')	Total/NA	Solid	8015 NM	
880-17728-2	SW-1 (1')	Total/NA	Solid	8015 NM	
880-17728-3	SW-2 (1')	Total/NA	Solid	8015 NM	
880-17728-4	SW-3 (1')	Total/NA	Solid	8015 NM	
880-17728-5	SW-4 (1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 31472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17728-1	CS-1 (1')	Soluble	Solid	DI Leach	
880-17728-2	SW-1 (1')	Soluble	Solid	DI Leach	
880-17728-3	SW-2 (1')	Soluble	Solid	DI Leach	
880-17728-4	SW-3 (1')	Soluble	Solid	DI Leach	
880-17728-5	SW-4 (1')	Soluble	Solid	DI Leach	
MB 880-31472/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31472/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31472/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-17721-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-17721-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-17727-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-17727-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 31509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17728-1	CS-1 (1')	Soluble	Solid	300.0	31472
880-17728-2	SW-1 (1')	Soluble	Solid	300.0	31472

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Analysis Batch: 31509 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17728-3	SW-2 (1')	Soluble	Solid	300.0	31472
880-17728-4	SW-3 (1')	Soluble	Solid	300.0	31472
880-17728-5	SW-4 (1')	Soluble	Solid	300.0	31472
MB 880-31472/1-A	Method Blank	Soluble	Solid	300.0	31472
LCS 880-31472/2-A	Lab Control Sample	Soluble	Solid	300.0	31472
LCSD 880-31472/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31472
880-17721-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	31472
880-17721-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31472
880-17727-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	31472
880-17727-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31472

Lab Chronicle

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

Client Sample ID: CS-1 (1')

Lab Sample ID: 880-17728-1

Date Collected: 08/03/22 00:00

Matrix: Solid

Date Received: 08/03/22 17:14

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	31465	08/04/22 08:51	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31452	08/04/22 11:14	MR	EETSC MII
Total/NA	Analysis	Total BTEX		1			31512	08/04/22 16:11	SM	EETSC MII
Total/NA	Analysis	8015 NM		1			31591	08/05/22 13:04	AJ	EETSC MII
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31442	08/04/22 16:40	DM	EETSC MII
Total/NA	Analysis	8015B NM		1			31457	08/05/22 03:30	AJ	EETSC MII
Soluble	Leach	DI Leach			5.03 g	50 mL	31472	08/04/22 09:34	KS	EETSC MII
Soluble	Analysis	300.0		1			31509	08/04/22 15:52	CH	EETSC MII

Client Sample ID: SW-1 (1')

Lab Sample ID: 880-17728-2

Date Collected: 08/03/22 00:00

Matrix: Solid

Date Received: 08/03/22 17:14

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	31465	08/04/22 08:51	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31452	08/04/22 11:35	MR	EETSC MII
Total/NA	Analysis	Total BTEX		1			31512	08/04/22 16:11	SM	EETSC MII
Total/NA	Analysis	8015 NM		1			31591	08/05/22 13:04	AJ	EETSC MII
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31442	08/04/22 16:40	DM	EETSC MII
Total/NA	Analysis	8015B NM		1			31457	08/05/22 03:52	AJ	EETSC MII
Soluble	Leach	DI Leach			4.98 g	50 mL	31472	08/04/22 09:34	KS	EETSC MII
Soluble	Analysis	300.0		1			31509	08/04/22 16:00	CH	EETSC MII

Client Sample ID: SW-2 (1')

Lab Sample ID: 880-17728-3

Date Collected: 08/03/22 00:00

Matrix: Solid

Date Received: 08/03/22 17:14

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	31465	08/04/22 08:51	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31452	08/04/22 11:56	MR	EETSC MII
Total/NA	Analysis	Total BTEX		1			31512	08/04/22 16:11	SM	EETSC MII
Total/NA	Analysis	8015 NM		1			31591	08/05/22 13:04	AJ	EETSC MII
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31442	08/04/22 16:40	DM	EETSC MII
Total/NA	Analysis	8015B NM		1			31457	08/05/22 04:14	AJ	EETSC MII
Soluble	Leach	DI Leach			4.95 g	50 mL	31472	08/04/22 09:34	KS	EETSC MII
Soluble	Analysis	300.0		1			31509	08/04/22 16:07	CH	EETSC MII

Client Sample ID: SW-3 (1')

Lab Sample ID: 880-17728-4

Date Collected: 08/03/22 00:00

Matrix: Solid

Date Received: 08/03/22 17:14

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	31465	08/04/22 08:51	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31452	08/04/22 12:16	MR	EETSC MII
Total/NA	Analysis	Total BTEX		1			31512	08/04/22 16:11	SM	EETSC MII

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

Client Sample ID: SW-3 (1')

Lab Sample ID: 880-17728-4

Date Collected: 08/03/22 00:00

Matrix: Solid

Date Received: 08/03/22 17:14

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			31591	08/05/22 13:04	AJ	EETSC MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31442	08/04/22 16:40	DM	EETSC MII
Total/NA	Analysis	8015B NM		1			31457	08/05/22 04:36	AJ	EETSC MII
Soluble	Leach	DI Leach			5.01 g	50 mL	31472	08/04/22 09:34	KS	EETSC MII
Soluble	Analysis	300.0		1			31509	08/04/22 16:16	CH	EETSC MII

Client Sample ID: SW-4 (1')

Lab Sample ID: 880-17728-5

Date Collected: 08/03/22 00:00

Matrix: Solid

Date Received: 08/03/22 17:14

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	31465	08/04/22 08:51	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31452	08/04/22 12:37	MR	EETSC MII
Total/NA	Analysis	Total BTEX		1			31512	08/04/22 16:11	SM	EETSC MII
Total/NA	Analysis	8015 NM		1			31591	08/05/22 13:04	AJ	EETSC MII
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31442	08/04/22 16:40	DM	EETSC MII
Total/NA	Analysis	8015B NM		1			31457	08/05/22 04:58	AJ	EETSC MII
Soluble	Leach	DI Leach			4.99 g	50 mL	31472	08/04/22 09:34	KS	EETSC MII
Soluble	Analysis	300.0		1			31509	08/04/22 16:23	CH	EETSC MII

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

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

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

Sample Summary

Client: Carmona Resources
Project/Site: ZHU 2331-1 Release

Job ID: 880-17728-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-17728-1	CS-1 (1')	Solid	08/03/22 00:00	08/03/22 17:14
880-17728-2	SW-1 (1')	Solid	08/03/22 00:00	08/03/22 17:14
880-17728-3	SW-2 (1')	Solid	08/03/22 00:00	08/03/22 17:14
880-17728-4	SW-3 (1')	Solid	08/03/22 00:00	08/03/22 17:14
880-17728-5	SW-4 (1')	Solid	08/03/22 00:00	08/03/22 17:14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14


Project Manager		Ashton Thielke		Bill to (if different)			
Company Name		Carmona Resources		Company Name		*Carmona Resources*	
Address		310 W Wall St Ste 415		Address			
City, State ZIP		Midland, TX 79701		City, State ZIP			
Phone		432-813-5347		Email			

Project Name:		ZHU 2331-1 Release		Turn Around		Pres. Code		ANALYSIS REQUEST									
Project Number		1082		Rush													
Project Location		Eddy Co. NM		Due Date		24 Hr											
Sampler's Name		AT		TAT starts the day received by the lab if received by 4:30pm													
PO #																	

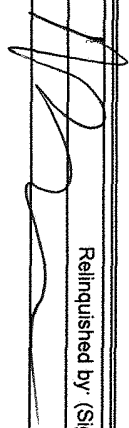

SAMPLE RECEIPT		Temp Blank		Yes (No)		Wet Ice		Yes (No)		Parameters											
Received Intact:		Yes (No)		Thermometer ID						BTEX 8021B											
Cooler Custody Seals		Yes (No)		Correction Factor						TPH 8015M (GRO + DRO + MRO)											
Sample Custody Seals		Yes (No)		Temperature Reading						Chloride 300.0											
Total Containers		Yes (No)		Corrected Temperature																	

Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont											
CS-1 (1')		8/3/2022				X				Comp		1		X X X									
SW-1 (1')		8/3/2022				X				Comp		1		X X X									
SW-2 (1')		8/3/2022				X				Comp		1		X X X									
SW-3 (1')		8/3/2022				X				Comp		1		X X X									
SW-4 (1')		8/3/2022				X				Comp		1		X X X									

880-17728 Chain of Custody



Sample Comments		Preservative Codes									
		None NO DI Water- H2O									
		Cool Cool MeOH Me									
		HCL HC HNO3 HN									
		H2SO4 H2 NaOH Na									
		H3PO4 HP									
		NaHSO4 NABIS									
		Na2S2O3 NaSO3									
		Zn Acetate+NaOH Zn									
		NaOH+Ascorbic Acid SAPC									

Relinquished by (Signature)		Date/Time		Received by (Signature)		Date/Time	
		8/3/2024				17.14	

Comments:

Program: UST/PST ☐ PRP ☐ Rowfields ☐ RC ☐ Pertund

State of Project:

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

Deliverables EDD ☐ ADAPT ☐ Other

Work Order Comments

Work Order No: 17728

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-17728-1

SDG Number: Eddy Co, NM

Login Number: 17728

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	

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

Action 141113

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 141113
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	9/12/2022