MRO Spill Calculation Tool

			•				
Standing Liquid Inputs:							
			Avg. Liquid		Total Volume	Water Volume	Oil Volume
	Length (ft.)	Width (ft.)	Depth (in.)	% Oil	(bbls)	(bbls)	(bbls)
nment - From Vac Ticket					130.00	130.00	0.00
Rectangle Area #2					0.00	0.00	0.00
Rectangle Area #3					0.00	0.00	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
				Liquid Volume:	130.00	130.00	0.00
Saturated Soil Inputs:		Soil Type:	Avg. Saturated]	Total Volume	Water Volume	Oil Volume
-	Length (ft.)	Width (ft.)	Depth (in.)	% Oil	(bbls)	(bbls)	(bbls)
Pad	100	160	0.0625		2.37	2.37	0.00
Pad	50	100	0.25		2.60	2.60	0.00
Pasture	156	93	0.0625		1.88	1.88	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
Rectangle Area #7					0.00	0.00	0.00
Rectangle Area #8					0.00	0.00	0.00
			:	Saturated Volume	6.86	6.86	0.00
					Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
			Total Sp	oill Volume (bbls):	136.86	136.86	0.00
			Total S	pill Volume (gals):	5747.97	5747.97	0.00
Comments:				•			
			Color Key:	Required Input Cells	Supplemental Input Cells	No Input (Calculations)	No Input
	_	Cua					
			und/Vegetatio				
Cover Type Ground		Microns	Approximate Do	eptn (in)			
Dull Color		10	0.00003281				
Dark Color		 	<u> </u>				
Duin Coloi		<u> </u>	0.00016404				

Duke PO Box 1253 Lovington, NM 88250 Office (575) 396-0934 Fax (575) 396-0449 Email dukeoilfieldlic@gmail.com Disposal Salt Water Fresh Water RIG: LEASE: haptor word 3 State Order By: James Guymod
Description of Service, Drive to jard to location and Back boxled 5 bbls of wast teater to Disposal and wash out track
Work done by: \(\text{Vark} \) \(\text{Vark} \



SITE INFORMATION

Work Plan Raptor West 3 State 2H Lea County, New Mexico Incident ID: nAPP2327550031 Unit P Sec 03 T19S R34E 32.6830063°, -103.542717°

Crude Oil

Point of Release: Failed Sight Glass on Separator

Release Date: 10/02/23

Volume Released: 136.8 Barrels of Crude Oil Volume Recovered: 130 Barrels of Crude Oil

CARMONA RESOURCES

Prepared for:
Marathon Oil Corporation
990 Town and Country Blvd,
Houston, Texas 77024

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



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2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

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5.0 PROPOSED WORK PLAN

6.0 CONCLUSIONS

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FIGURE 3 SAMPLE LOCATION FIGURE 4 PROPOSED EXCAVATION

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APPENDIX C INITIAL C-141 AND REMEDIATION PLAN

APPENDIX D SITE CHARACTERIZATION AND GROUNDWATER

APPENDIX E LABORATORY REPORTS

APPENDIX F SOIL SURVEY AND MAP

APPENDIX G MICRO-BLAZE SDS

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



November 2, 2023

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

Re: Work Plan

Raptor West 3 State 2H Marathon Oil Corporation Incident ID: nAPP2327550031

Site Location: Unit P, S03, T19S, R34E (Lat 32.6830063°, Long -103.542717°)

Lea County, New Mexico

To whom it may concern:

On behalf of Marathon Oil Company, Carmona Resources, LLC has prepared this letter to document site activities for the Raptor West 3 State 2H. The site is located at 32.6830063°, - 103.542717° within Unit P, S03, T19S, R34E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on October 2, 2023, caused by a sight glass failure on the separator. The incident resulted in the release of one hundred thirty-six point eight (136.8) barrels of crude oil, with one hundred thirty (130) barrels recovered. Refer to Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, two known water sources are within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.12 miles northwest of the site in S03, T19S, R34E, and was drilled in 1981. The well has a reported depth to groundwater of 104.90' below ground surface (ft bgs). A copy of the associated Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

310 West Wall Street, Suite 500 Midland, Texas 79701



4.0 Site Assessment Activities

Initial Assessment

On October 10, 2023, Carmona Resources, LLC was onsite to perform an initial assessment to evaluate soil impacts stemming from the release. A total of eight (8) sample points (S-1 through S-8) and eight (8) horizontal samples (H-1 through H-8) were advanced to depths ranging from the surface to 2' bgs within and surrounding the release to assess the vertical and horizontal extent. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Table 1 for the analytical results.

Vertical Delineation

Vertical delineation was achieved for all sample points. Refer to Table 1.

Horizontal Delineation

All horizontal locations were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

5.0 Proposed Work Plan

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

- ➤ The areas of S-1, S-2, and S-3 will be excavated to a depth of 2.0' below the surface and backfilled with clean material to surface grade.
- The area of S-4 will be excavated to a depth of 1.5' below the surface and backfilled with clean material to surface grade.
- ➤ The areas of S-7 and S-8 will undergo in-situ remediation in the pasture to address the surface staining.
- An estimated 1,491 cubic yards will be removed and hauled to the nearest disposal based on the maximum depth.
- An estimated 48,070 cubic feet of pasture will be treated in-situ. A solution of Micro-Blaze and water will be directly applied. A solution of 97 gallons of Micro-Blaze and 866 gallons of water will be directly applied to the affected area in the pasture.
- The affected area of the pasture will be sampled after 90 days to confirm that the

310 West Wall Street, Suite 50 Midland, Texas 7970 432.813.199



soil is below the regulatory criteria for this site.

- A variance is requested per 19.15.29.14.A NMAC, for five-point composite bottom hole floor, and sidewall samples to be collected every 500 square feet to represent the release area.
- ➤ The remediation will be implemented 90 days after the work plan is approved.
- Impacted soil around oil and gas equipment, structures, or lines may not be removed during remediation activities due to safety concerns for the onsite personnel. However, Marathon will excavate the impacted soil to the maximum extent possible.

6.0 Conclusions

Upon completion, a final closure report describing the remediation activities will be presented to the New Mexico Oil Conservation Division (NMOCD). If you have any questions regarding this report or need additional information, please contact us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

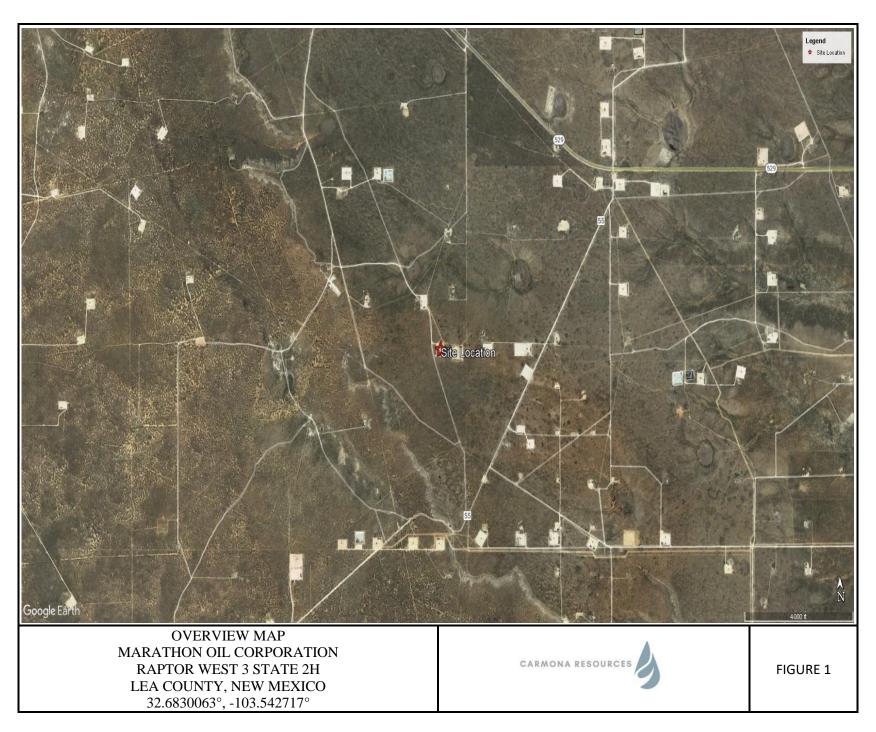
Clinton Merritt

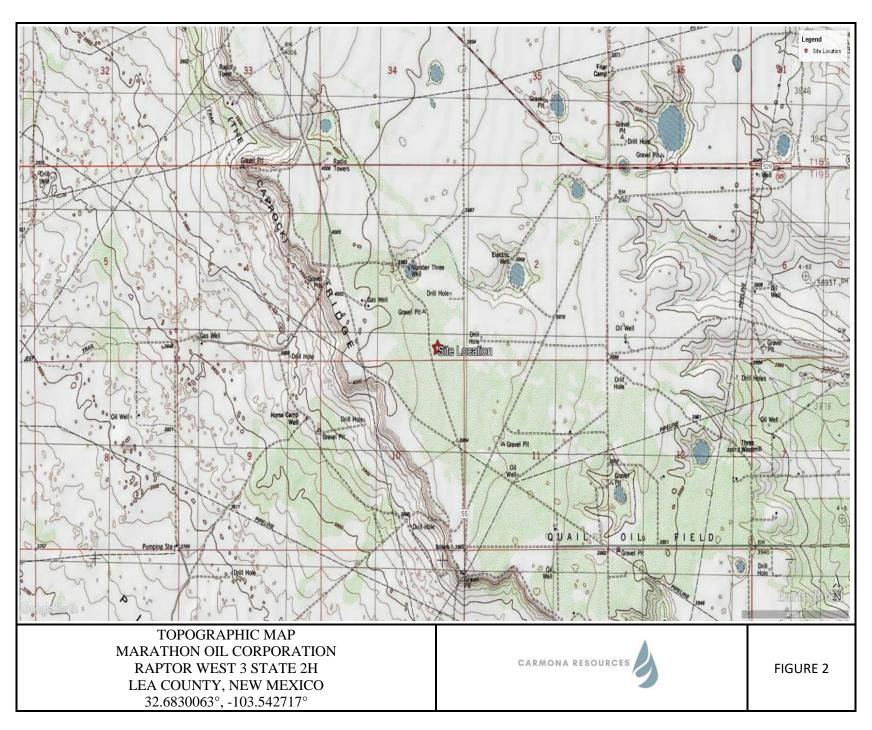
Sr. Project Manager

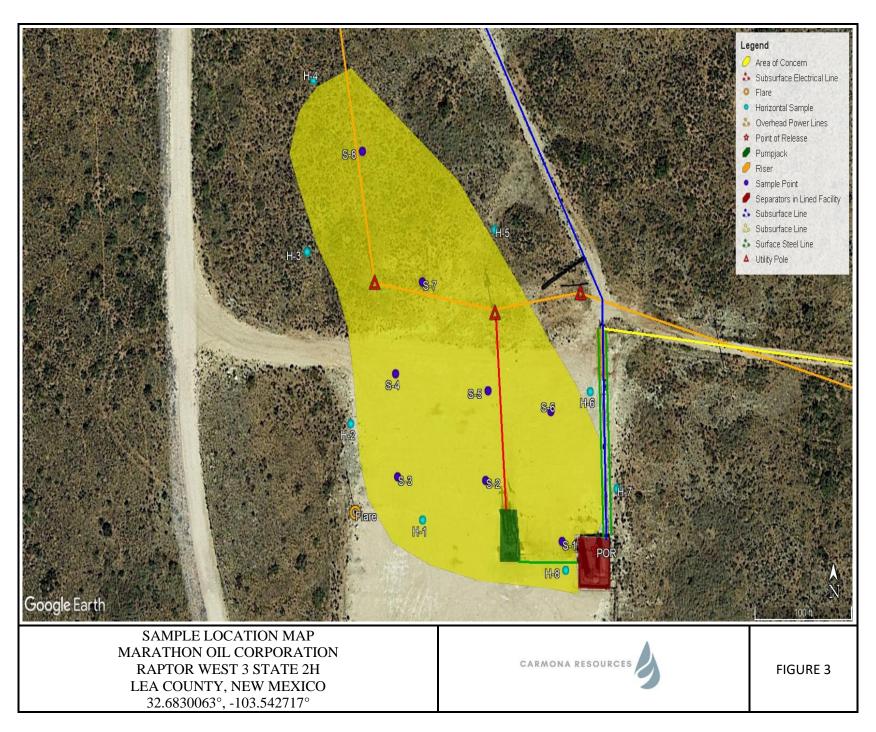
Devin Dominguez Sr. Project Manager

> 310 West Wall Street, Suite 500 Midland, Texas 79701

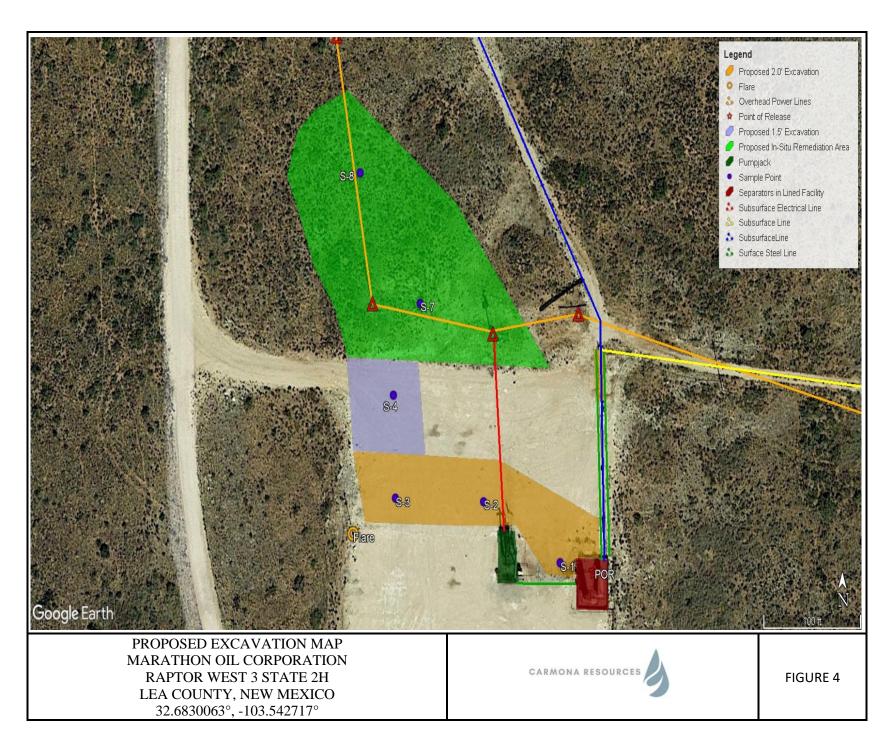
FIGURES







Received by OCD: 12/5/2023 2:15:07 PM



APPENDIX A

Table 1 **Marathon Oil Corporation** Raptor West 3 State 2H Lea County, New Mexico

0	Data David (fi)		TPH (mg/kg)				Benzene Toluene	Ethlybenzene X	Xylene	Xylene Total BTEX Chlorid	Chloride	
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	10/10/2023	0-1	<49.9	119	<49.9	119	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	392
S-1	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	986
	"	2	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	112
	10/10/2023	0-1	<50.3	1,280	76.2	1,360	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,240
S-2	"	1.5	<50.2	105	<50.2	105	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	833
	II .	2	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	117
I	10/10/2023	0-1	<50.2	1,790	143	1,930	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	263
S-3	"	1.5	<50.1	90.5	<50.1	90.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	995
	"	2	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	129
	10/10/2023	0-1	<49.8	239	<49.8	239	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	211
S-4	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	133
	"	2	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	136
	10/10/2023	0-1	<49.9	60.5	<49.9	60.5	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	112
S-5	"	1.5	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	131
	"	2	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	126
	10/10/2023	0-1	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	275
S-6	"	1.5	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	124
	"	2	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	147
S-7	10/10/2023	0-1	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	158
3-1	"	1.5	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	102
0.0	10/10/2023	0-1	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	104
S-8	"	1.5	<50.5	<50.5	<50.5	<50.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	113
Regulatory	y Criteria ^A					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram TPH- Total Petroleum Hydrocarbons ft-feet

(S) Sample Point

Proposed Excavation

Table 1 **Marathon Oil Corporation** Raptor West 3 State 2H **Lea County, New Mexico**

0 10		D (1 (6)	TPH (mg/kg)				Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
H-1	10/10/2023	0-6"	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	87.5
H-2	10/10/2023	0-6"	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	77.8
H-3	10/10/2023	0-6"	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	79.4
H-4	10/10/2023	0-6"	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	104
H-5	10/10/2023	0-6"	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	91.5
H-6	10/10/2023	0-6"	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	95.9
H-7	10/10/2023	0-6"	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	100
H-8	10/10/2023	0-6"	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	113
	ory Criteria ^A					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

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

(H) Horizontal Sample

APPENDIX B

PHOTOGRAPHIC LOG

Marathon Oil Corporation

Photograph No. 1

Facility: Raptor West 3 State 2H

County: Lea County, New Mexico

Description:

View South, area of S-1.



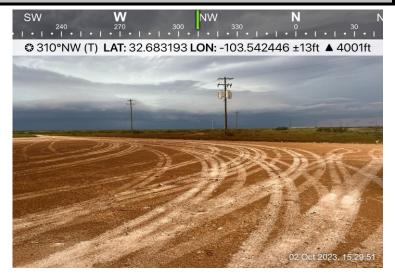
Photograph No. 2

Facility: Raptor West 3 State 2H

County: Lea County, New Mexico

Description:

View Northwest, area of S-3 through S-4.



Photograph No. 3

Facility: Raptor West 3 State 2H

County: Lea County, New Mexico

Description:

View North, area of S-7 & S-8.



APPENDIX C

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	nAPP2327550031
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Marathon Oil Permian LLC	OGRID 372098
Contact Name Melodie Sanjari	Contact Telephone 575-988-8753
Contact email msanjari@marathonoil.com	Incident # (assigned by OCD)
Contact mailing address 4111 S. Tidwell Rd., Carlsbad, NM 8220	

Location of Release Source

Latitude 32.6830063 Longitude -103.542717

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Raptor West 3 State 2H					Site Type Oil & Gas Facility		
Date Release Discovered: 10/2/2023					API# (if applicable) 30-025-41186		
	Unit Letter	Section	Township	Range		County	
Ī	P	03	19S	34E	Lea		

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Material	l(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)						
Crude Oil	Volume Released (bbls) 136.8	Volume Recovered (bbls) 130						
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)						
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No						
Condensate	Volume Released (bbls)	Volume Recovered (bbls)						
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)						
Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)								
Cause of Release								
HES tech arrived on location to an active leak/overspray from a failed sight glass on the separator. The source of the leak has been isolated and standing fluids are being recovered from the separator's secondary containment.								

130 bbl. of fluid within the lined, secondary containment.

4.97 bbl. of dark overspray on the pad and approx.

1.88 bbl. of light overspray in the pasture to the North of the pad.

Standing fluid is actively being recovered and the impacted areas remediated.

Received by OCD: 12/5/2023 2:15:07 PMI State of New Mexico Page 2 Oil Conservation Division Page 20 of 256

Incident ID	nAPP2327550031
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respons	ible party consider this a major release?
19.15.29.7(A) NMAC?		
⊠ Yes □ No		
If YES, was immediate no Yes – NOR submitted 10/	•	m? When and by what means (phone, email, etc)?
	Initial Re	sponse
TI -11		
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health and t	ne environment.
Released materials ha	we been contained via the use of berms or di	kes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain w	hy:
Per 19 15 29 8 B (4) NM	AC the responsible party may commence re	mediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial e	forts have been successfully completed or if the release occurred ease attach all information needed for closure evaluation.
		est of my knowledge and understand that pursuant to OCD rules and
public health or the environr	nent. The acceptance of a C-141 report by the OC	cations and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have
		to groundwater, surface water, human health or the environment. In sponsibility for compliance with any other federal, state, or local laws
and/or regulations.		spendently 101 compliance m., conc. 1000 s., cons., c. 1000 s.
Printed Name:Mel	odie Sanjari	Title:Environmental Professional
Signature: Melod	<u>lie Sanjari</u>	Date: 10/6/2023
email: msanjari@marat	thonoil com	Telephone: 575-988-8753
oman. <u>misanjar (a) marat</u>		1 crephone
OCD Only		
Received by: Shelly Well	ls	Date: 10/6/2023

MRO Spill Calculation Tool

Standing Liquid Inputs:							
	Length (ft.)	Width (ft.)	Avg. Liquid Depth (in.)	% Oil	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
nment - From Vac Ticket					130.00	130.00	0.00
Rectangle Area #2					0.00	0.00	0.00
Rectangle Area #3					0.00	0.00	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
_		•	•	Liquid Volume:	130.00	130.00	0.00
Saturated Soil Inputs:		Soil Type	Avg. Saturated		Total Volume	Water Volume	Oil Volume
-	Length (ft.)	Width (ft.)	Depth (in.)	% Oil	(bbls)	(bbls)	(bbls)
Pad	100	160	0.0625		2.37	2.37	0.00
Pad	50	100	0.25		2.60	2.60	0.00
Pasture	156	93	0.0625		1.88	1.88	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
Rectangle Area #7					0.00	0.00	0.00
Rectangle Area #8					0.00	0.00	0.00
			;	Saturated Volume	6.86	6.86	0.00
				oill Volume (bbls):	Total Volume (bbls) 136.86	Water Volume (bbls) 136.86	Oil Volume (bbls)
_			rotar Sp	oill Volume (gals):	5747.97	5747.97	0.00
Comments:							
			Color Key:	Required Input Cells	Supplemental Input Cells	No Input (Calculations)	No Input
		Gro	ound/Vegetatio	n Overspray			
Cover Type		Microns	Approximate De	epth (in)			
Ground		1					
Dull Color		1	0.00003281				
Dark Color		50	0.00016404				

PO Box 1253 Lovington, NM 88260 Oilfield Services, LLC PO Box 1253 Lovington, NM 88260 Fax (575) 396-0934 Fax (575) 396-0449 Email dukeoilfieldlic@gmail.com Disposal
DATE: 0-2-23 COMPANY: Mara/hon RIG: LEASE: Paptor west 3 state Orderd by: James (juymod)
Description of Service, Drive to fard to location and Back boxled 5 bbls of wast leafer to Description of Service, Hours Hours And Location and Back
Work In location electron Split and Ironsfer 130 blk (USE, OII In Soume location) Transfer 130 blk (USE, OII In Soume location) Accepted:
Work done by:

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS

Action 273218

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	273218
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date	
scwells	None	10/6/2023	

Received by OCD: 12/5/2023 2:15:07 PM Form C-141 State of New Mexico
Page 3 Oil Conservation Division

	Page 24 of 256
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well 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	ls.

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

Received by OCD: 12/5/2023 2:15:07 PM Form C-141 State of New Mexico Oil Conservation Division Page 4

Page 25 of 256

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:							
Signature:	Date:						
email:	Telephone:						
OCD Only							
Received by:	Date:						

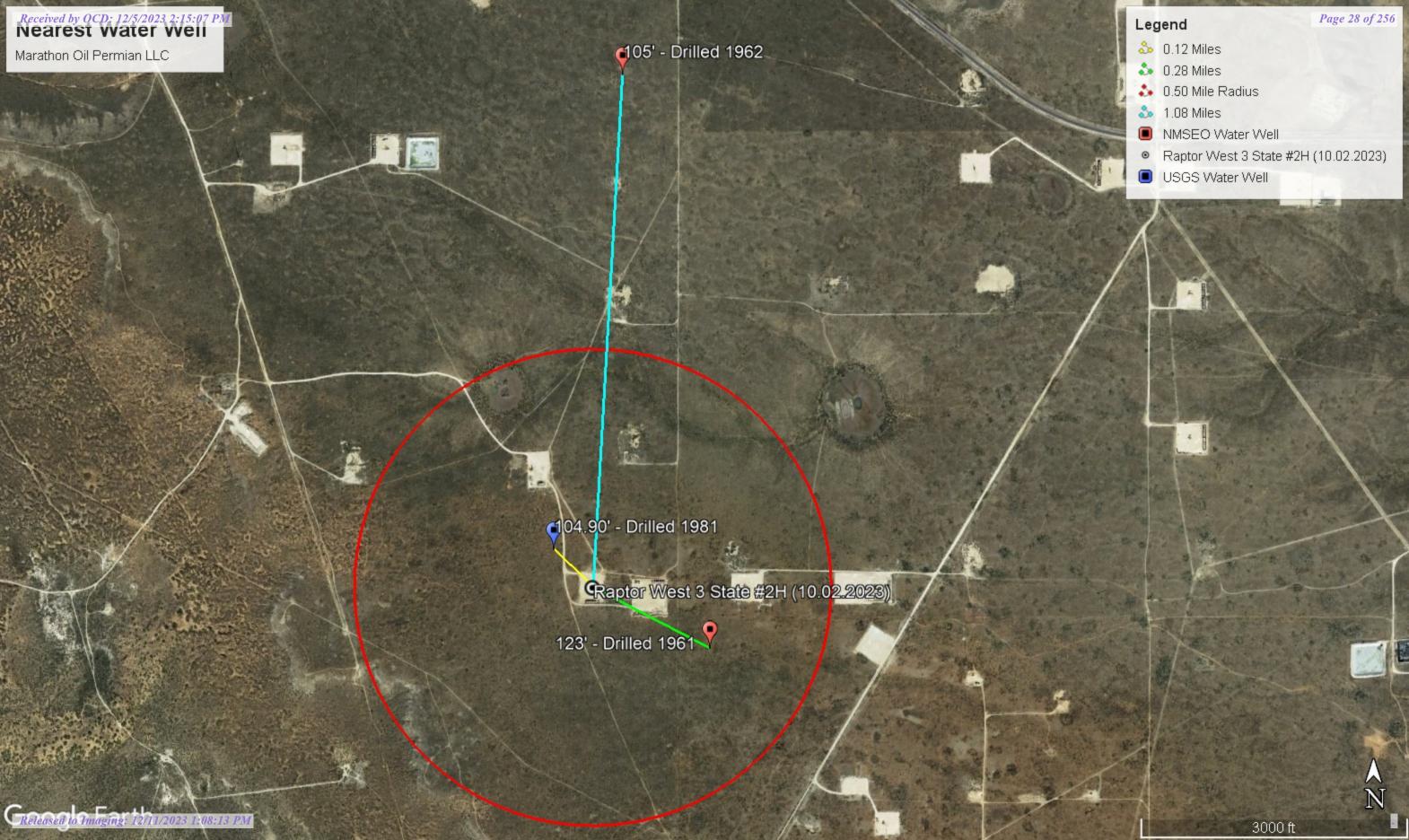
Received by OCD: 12/5/2023 2:15:07 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

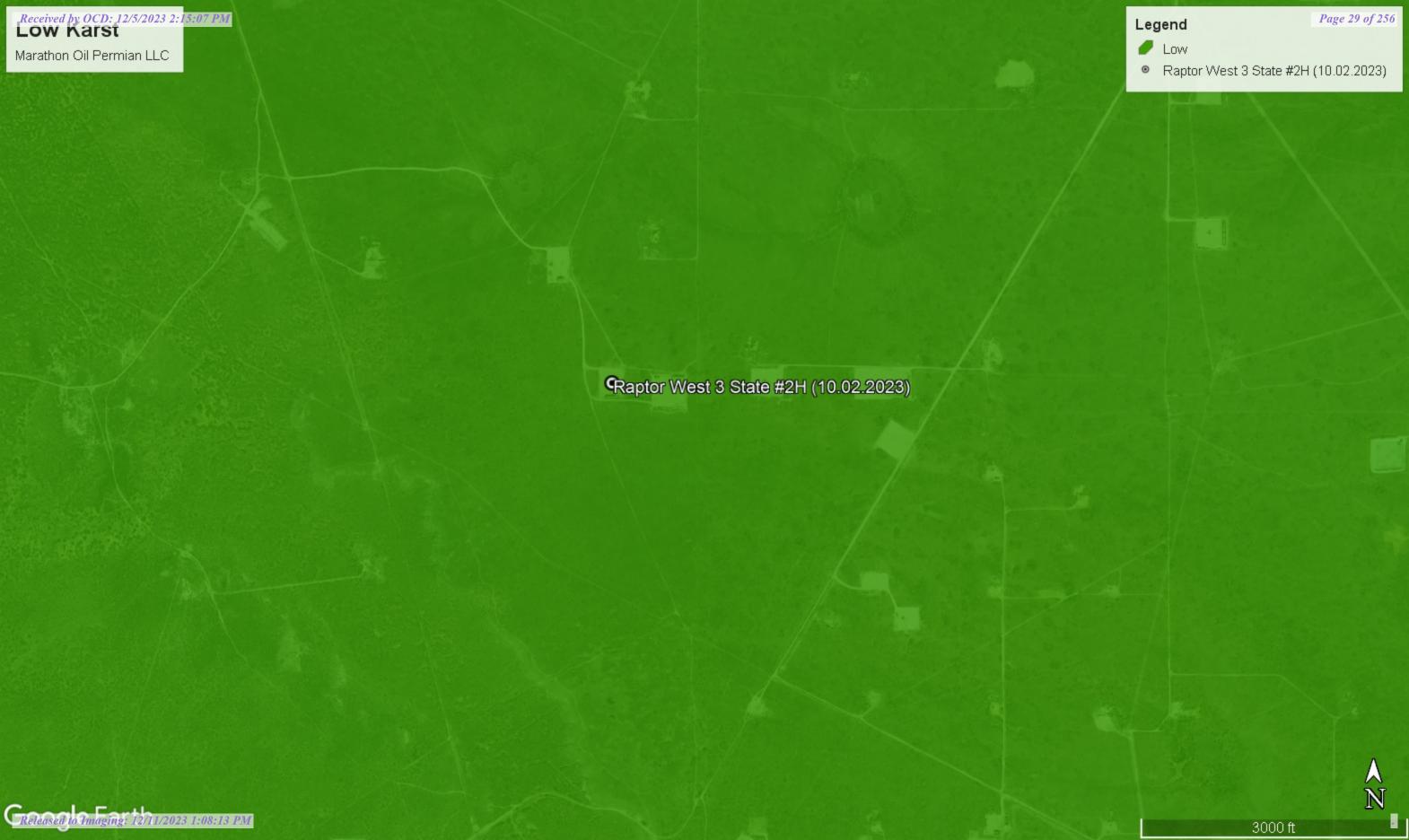
	Page 26 of 25	56
Incident ID		
District RP		
Facility ID		
A1' 4' ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation poin Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29. Proposed schedule for remediation (note if remediation plan times)	ts 12(C)(4) NMAC
<u>Deferral Requests Only</u> : Each of the following items must be con	nfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions of	Approval
Signature: Nelson Velez	<u>Date:</u> 12/11/2023

APPENDIX D







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 Sub-			Q C	-	_			v	- 1.		Depth	
POD Number L 04723	Code basin	County LE				1 ws		X 637026	Y 3616880*	Distance 450	Well 145	123	Column 22
L 10347	L	LE	'			195		635909	3617566*	862	130	123	22
L 12103 POD1	L	LE	3	3 4	02	19S	34E	637920	3617173 🌍	1298	120		
CP 00806 POD1	СР	LE		4 4	04	19S	34E	635109	3617151* 🌍	1516	50		
L 04995	L	LE		4 4	34	18S	34E	636700	3618828* 🌍	1745	179	105	74
L 10380	L	LE	4	4 4	02	19S	34E	638428	3617102*	1804	153	100	53
L 11934 POD1	L	LE	3	3 4	35	18S	34E	637806	3618744* 🌍	2037	160	105	55
CP 00811 POD1	СР	LE		4 4	09	19S	34E	635132	3615542*	2145	50		
L 04059	L	LE		4 1	12	19S	34E	639146	3616412*	2609	125	60	65
L 05851	L	LE		1	34	18S	34E	635681	3619816* 🌍	2890	240	85	155
L 09576	L	LE		1 1	35	18S	34E	637082	3620041*	2992	180	130	50
L 12633 POD1	L	LE	2	2 2	34	18S	34E	636852	3620203 🌑	3128	180	117	63
L 06731	L	LE	3	2 2	12	19S	34E	639844	3616727* 🌍	3239	120	80	40
L 10236	L	LE		3 3	3 27	18S	34E	635466	3620420*	3531			
L 10344 POD2	L	LE		3 3	3 27	18S	34E	635466	3620420*	3531	142	112	30
L 10202	L	LE		4 4	28	18S	34E	635065	3620414*	3676	70	50	20
L 03145	L	LE		1 1	07	19S	35E	640347	3616866* 🌍	3729	97	45	52
L 04211	L	LE		1 3	06	19S	35E	640337	3617672*	3759	130	60	70

Average Depth to Water:

90 feet

Minimum Depth:

45 feet

Maximum Depth:

130 feet

Record Count: 18

UTMNAD83 Radius Search (in meters):

Easting (X): 636624 Northing (Y): 3617084 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.

10/4/23 6:49 AM Page 1 of 1 WATER COLUMN/ AVERAGE



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources



Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 324103103323901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 324103103323901 19S.34E.03.41213

Lea County, New Mexico

Table of data

Tab-separated data

1981-01-28

Latitude 32°41'03", Longitude 103°32'39" NAD27

Land-surface elevation 3,989 feet above NAVD88

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

eselect pe	eriod									
Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1961-03-0)8	D	62610		3882.15	NGVD29	1	:	Z	
1961-03-0	08	D	62611		3883.81	NAVD88	1	:	Z	
1961-03-0	8	D	72019	105.19			1		Z	
1966-02-0	8	D	62610		3875.65	NGVD29	Р	:	Z	
1966-02-0	8	D	62611		3877.31	NAVD88	Р		Z	
1966-02-0	8	D	72019	111.69			Р	;	Z	
1971-01-2	27	D	62610		3880.92	NGVD29	Р		Z	
1971-01-2	27	D	62611		3882.58	NAVD88	Р	;	Z	
1971-01-2	27	D	72019	106.42			Р	;	Z	
1976-01-2	28	D	62610		3885.22	NGVD29	1	;	Z	
1976-01-2	28	D	62611		3886.88	NAVD88	1	:	Z	
1976-01-2	28	D	72019	102.12			1	:	Z	
1981-01-2	28	D	62610		3882.44	NGVD29	1	:	Z	
1981-01-2	28	D	62611		3884.10	NAVD88	1	:	Z	

72019

104.90

D

Z

Explanation

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

Questions or Comments Automated retrievals <u>Help</u> Data Tips Explanation of terms
Subscribe for system changes **News**

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for New Mexico: Water Levels

URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer Page Last Modified: 2023-10-04 08:54:03 EDT

0.28 0.24 nadww01





New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X Y

L 04723

1 1 1 11 198 341

637026 3616880*

6

Driller License: 137

Driller Company:

ROBERTS, GRADY

Driller Name:

Drill Start Date: 09/22/1961

Drill Finish Date:

09/24/1961

145 feet

Plug Date:

10/30/1961

Log File Date:

10/16/1961

PCW Rcv Date:

Source:

Shallow

Pump Type:

Casing Size:

Pipe Discharge Size:

Depth Well:

Estimated Yield:

Depth Water: 123 feet

Water Bearing Stratifications:

6.63

rop	DOLLOIII	Description
130	139	Sandstone/Gravel/Conglomerate
139	144	Sandstone/Gravel/Conglomerate
144	145	Sandstone/Gravel/Conglomerate

Casing Perforations:

Тор	Bottom
120	145

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.

10/4/23 6:50 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

 \mathbf{X}

L 04995

636700 3618828*

Driller License: Driller Company: ABBOTT BROTHERS COMPANY

Driller Name: MURRELL ABBOTT

Drill Start Date: 10/21/1962 **Drill Finish Date:**

10/21/1962

Plug Date:

Log File Date:

10/29/1962

7.00

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

179 feet

Depth Water:

105 feet

Water Bearing Stratifications:

Bottom Description Top

179 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top 105

105

179

Bottom

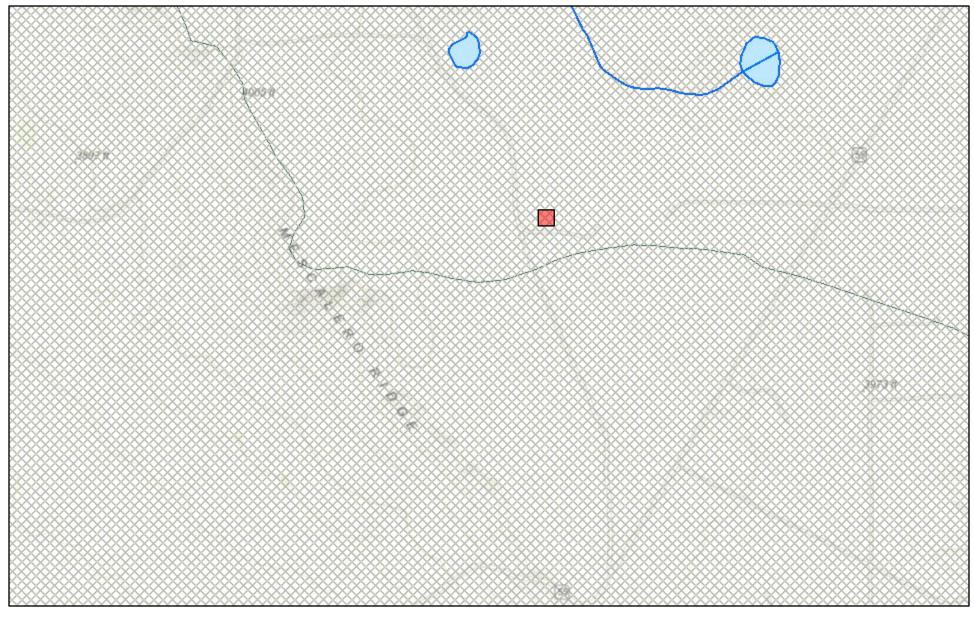
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10/4/23 6:52 AM

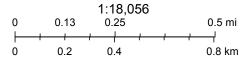
POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help

New Mexico NFHL Data



October 4, 2023



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

APPENDIX E

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/16/2023 2:50:48 PM

JOB DESCRIPTION

Raptor West 3 State #2H SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34311-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 10/16/2023 2:50:48 PM

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

9

11

40

14

Client: Carmona Resources Project/Site: Raptor West 3 State #2H Laboratory Job ID: 880-34311-1 SDG: Lea County, New Mexico

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QC Association Summary	14
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Sample Summary	19
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Definitions/Glossary

Job ID: 880-34311-1 Client: Carmona Resources Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier Qualifier Description

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit **PRES** Presumptive

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry) RPD

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1

SDG: Lea County, New Mexico

Job ID: 880-34311-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-34311-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 10/11/2023 2:19 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 -7.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-1') (880-34311-1), S-1 (1.5') (880-34311-2) and S-1 (2') (880-34311-3).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 (0-1') (880-34311-1) and S-1 (2') (880-34311-3). 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.

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: S-1 (0-1') (880-34311-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: S-1 (2') (880-34311-3). 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 880-64569 and analytical batch 880-64695 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: Carmona Resources Job ID: 880-34311-1

Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Client Sample ID: S-1 (0-1') Lab Sample ID: 880-34311-1 Date Collected: 10/10/23 00:00 Matrix: Solid Date Received: 10/11/23 14:19

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 19:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 19:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 19:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/11/23 15:04	10/12/23 19:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 19:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/11/23 15:04	10/12/23 19:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				10/11/23 15:04	10/12/23 19:18	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130				10/11/23 15:04	10/12/23 19:18	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/12/23 19:18	1
Method: SW846 8015 NM - Diese	al Banga Organ	ico (DBO) (00)						
INICUIOG. 3W040 OU 13 INIVI - DIESE	ei Kanue Oruan	ICS (DRU) (GC)						
Analyte	•	Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•		•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/12/23 13:30	Dil Fac
Analyte	Result 119	Qualifier	RL 49.9	MDL		<u> </u>	Prepared		
Analyte Total TPH	Result 119 sel Range Orga	Qualifier	RL 49.9			D 	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result 119 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)		mg/Kg		· · ·	10/12/23 13:30	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result 119 sel Range Orga	Qualifier nics (DRO) Qualifier	(GC) RL 49.9		mg/Kg Unit mg/Kg		Prepared 10/11/23 15:46	10/12/23 13:30 Analyzed 10/12/23 13:30	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 119 sel Range Orga	Qualifier nics (DRO) Qualifier	(GC)		mg/Kg		Prepared	10/12/23 13:30 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result 119 sel Range Orga Result Result 49.9	Qualifier nics (DRO) Qualifier U	(GC) RL 49.9		mg/Kg Unit mg/Kg		Prepared 10/11/23 15:46	10/12/23 13:30 Analyzed 10/12/23 13:30	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 119 sel Range Orga Result 								

Client Sample ID: S-1 (1.5') Lab Sample ID: 880-34311-2 Date Collected: 10/10/23 00:00 **Matrix: Solid**

5.00

392

mg/Kg

Date Received: 10/11/23 14:19

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 12:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 12:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 12:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 12:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 12:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 12:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130				10/11/23 15:04	10/12/23 12:06	1
1,4-Difluorobenzene (Surr)	94		70 - 130				10/11/23 15:04	10/12/23 12:06	1

Eurofins Midland

10/15/23 15:58

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1 SDG: Lea County, New Mexico

Client Sample ID: S-1 (1.5')

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Lab Sample ID: 880-34311-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/12/23 12:06	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/12/23 13:52	1
- Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 13:52	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 13:52	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				10/11/23 15:46	10/12/23 13:52	1
o-Terphenyl	129		70 - 130				10/11/23 15:46	10/12/23 13:52	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solubl	۵						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	986		5.00	5	mg/Kg			10/15/23 16:03	

Client Sample ID: S-1 (2') Lab Sample ID: 880-34311-3 Date Collected: 10/10/23 00:00 **Matrix: Solid**

Date Received: 10/11/23 14:19

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 12:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 12:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 12:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/11/23 15:04	10/12/23 12:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 12:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/11/23 15:04	10/12/23 12:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				10/11/23 15:04	10/12/23 12:26	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130				10/11/23 15:04	10/12/23 12:26	1

Method: TAL SOP Total BTEX - Total	I BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/12/23 12:26	1

Method: SW846 8015 NM - Diesel I	Range Organ	ics (DRO) (C	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			10/12/23 14:14	1

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		10/11/23 15:46	10/12/23 14:14	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		10/11/23 15:46	10/12/23 14:14	1

Job ID: 880-34311-1 Client: Carmona Resources Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Client Sample ID: S-1 (2')

Lab Sample ID: 880-34311-3 Date Collected: 10/10/23 00:00

Matrix: Solid Date Received: 10/11/23 14:19

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO	(GC) (Continue	ed)					
Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	m	ng/Kg		10/11/23 15:46	10/12/23 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				10/11/23 15:46	10/12/23 14:14	1
o-Terphenyl	141	S1+	70 - 130				10/11/23 15:46	10/12/23 14:14	1

Method: EPA 300.0 - Anions, Ion Cl	hromatography	y - Soluble						
Analyte	Result Q	tualifier	RL MDI	. Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112	4.	99	mg/Kg			10/15/23 16:09	1

Surrogate Summary

Client: Carmona Resources

Job ID: 880-34311-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		DED4	DED74	Percent Surrogate Recovery (Acceptance Limits)
	011 4 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-34311-1	S-1 (0-1')	87	66 S1-	
880-34311-1 MS	S-1 (0-1')	122	100	
880-34311-1 MSD	S-1 (0-1')	115	104	
880-34311-2	S-1 (1.5')	76	94	
880-34311-3	S-1 (2')	87	69 S1-	
LCS 880-64502/1-A	Lab Control Sample	128	109	
LCSD 880-64502/2-A	Lab Control Sample Dup	128	101	
MB 880-64502/5-A	Method Blank	80	91	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-34290-A-4-E MS	Matrix Spike	97	92
880-34290-A-4-F MSD	Matrix Spike Duplicate	97	91
880-34311-1	S-1 (0-1')	124	131 S1+
880-34311-2	S-1 (1.5')	120	129
880-34311-3	S-1 (2')	131 S1+	141 S1+
LCS 880-64505/2-A	Lab Control Sample	97	103
LCSD 880-64505/3-A	Lab Control Sample Dup	84	90
MB 880-64505/1-A	Method Blank	96	109

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Carmona Resources Job ID: 880-34311-1 SDG: Lea County, New Mexico Project/Site: Raptor West 3 State #2H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64502/5-A

Matrix: Solid Analysis Batch: 64523 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64502

	1110	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1

мв мв

MR MR

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80	70 - 130	10/11/23 15:04	10/12/23 11:23	1
1,4-Difluorobenzene (Surr)	91	70 - 130	10/11/23 15:04	10/12/23 11:23	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-64502/1-A

Matrix: Solid

Analysis Batch: 64523

Prep Type: Total/NA

Prep Batch: 64502

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07857		mg/Kg		79	70 - 130	
Toluene	0.100	0.07926		mg/Kg		79	70 - 130	
Ethylbenzene	0.100	0.09043		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.1946		mg/Kg		97	70 - 130	
o-Xylene	0.100	0.09961		mg/Kg		100	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	128	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: LCSD 880-64502/2-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64502

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08430		mg/Kg		84	70 - 130	7	35	
Toluene	0.100	0.07828		mg/Kg		78	70 - 130	1	35	
Ethylbenzene	0.100	0.08874		mg/Kg		89	70 - 130	2	35	
m-Xylene & p-Xylene	0.200	0.1787		mg/Kg		89	70 - 130	9	35	
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130	4	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1.4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-34311-1 MS

Matrix: Solid

Analysis Batch: 64523

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

Prep Type: Total/NA

Prep Batch: 64502

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.09524		mg/Kg		96	70 - 130	
Toluene	<0.00200	U	0.0996	0.09387		mg/Kg		94	70 - 130	

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QC Sample Results

Client: Carmona Resources Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34311-1 MS **Matrix: Solid**

Lab Sample ID: 880-34311-1 MSD

Analysis Batch: 64523

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

Prep Type: Total/NA Prep Batch: 64502

Job ID: 880-34311-1

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0996	0.1043		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2282		mg/Kg		115	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.1141		mg/Kg		115	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	122	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

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

Prep Type: Total/NA

Prep Batch: 64502

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Analysis Batch: 64523 Sample Sample Spike MSD MSD Result Qualifier Result Qualifier RPD Limit Analyte Added Unit %Rec Limits Benzene <0.00200 U 0.0990 0.08499 mg/Kg 86 70 - 130 11 35 Toluene 0.08138 82 <0.00200 U 0.0990 mg/Kg 70 - 130 14 35 Ethylbenzene <0.00200 U 0.0990 0.08808 mg/Kg 89 70 - 130 17 35 <0.00401 U 0.198 0.1873 95 70 - 130 35 m-Xylene & p-Xylene mg/Kg 20

0.09482

0.0990

MSD MSD

<0.00200 U

	mos mo	-	
Surrogate	%Recovery Qua	alifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	104	7	70 - 130

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

Lab Sample ID: MB 880-64505/1-A

Matrix: Solid

Matrix: Solid

o-Xylene

Analysis Batch: 64518

Client Sample ID: Method Blank

96

mg/Kg

70 - 130

Prep Type: Total/NA Prep Batch: 64505

	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		10/11/23 15:46	10/12/23 08:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	10/11/23 15:46	10/12/23 08:09	1
o-Terphenyl	109		70 - 130	10/11/23 15:46	10/12/23 08:09	1

Lab Sample ID: LCS 880-64505/2-A

Matrix: Solid

Analysis Batch: 64518

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

Prep Batch: 64505

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	952.4		mg/Kg		95	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	912.6		mg/Kg		91	70 - 130	
C10-C28)								

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Job ID: 880-34311-1

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

LCS LCS

Lab Sample ID: LCS 880-64505/2-A

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64505

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	97	70 - 130
o-Terphenyl	103	70 - 130

Lab Sample ID: LCSD 880-64505/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 64518

Prep Type: Total/NA

Prep Batch: 64505

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 856.3 86 70 - 130 11 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 786.7 mg/Kg 79 70 - 13020 15 C10-C28)

LCSD LCSD

Surrogate	%Recovery Quali	fier Limits
1-Chlorooctane	84	70 - 130
o-Terphenyl	90	70 - 130

Client Sample ID: Matrix Spike Lab Sample ID: 880-34290-A-4-E MS

Matrix: Solid

Analysis Batch: 64518

Prep Type: Total/NA

Prep Batch: 64505

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	994	1158		mg/Kg		113	70 - 130		_
Diesel Range Organics (Over C10-C28)	<49.9	U	994	889.8		mg/Kg		87	70 - 130		

	MS MS	
Surrogate	%Recovery Qualifie	r Limits
1-Chlorooctane	97	70 - 130
o-Terphenyl	92	70 - 130

Lab Sample ID: 880-34290-A-4-F MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 64518

Prep Batch: 64505 Sample Sample Spike MSD MSD %Rec

		- up.							,0.100			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U	994	1187		mg/Kg		116	70 - 130	2	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U	994	893.7		mg/Kg		87	70 - 130	0	20	
C10-C28)												

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

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Client: Carmona Resources

Job ID: 880-34311-1

SDG: Lea County, New Mexico

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Matrix Spike

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64569/1-A

Project/Site: Raptor West 3 State #2H

Matrix: Solid

Analysis Batch: 64695

мв мв

 Analyte
 Result Chloride
 Qualifier
 RL VIDENTIAL
 MDL VIDENTIAL
 Unit VIDENTIAL
 D VIDENTIAL
 Prepared Prepared
 Analyzed Analyzed VIDENTIAL
 Dil Fac VIDENTIAL

 Chloride
 <5.00</td>
 U
 5.00
 mg/Kg
 DI VIDENTIAL
 10/15/23 15:18
 1

Lab Sample ID: LCS 880-64569/2-A

Matrix: Solid

Analysis Batch: 64695

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 274.9 mg/Kg 110 90 - 110

Lab Sample ID: LCSD 880-64569/3-A

Matrix: Solid

Analysis Batch: 64695

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit Limits RPD Limit Chloride 250 273.8 110 90 - 110 mg/Kg

Lab Sample ID: 880-34310-A-1-C MSD

Matrix: Solid

Analysis Batch: 64695

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier %Rec RPD Limit Unit Limits 390.0 F1 Chloride 104 F1 249 115 90 - 110 20 mg/Kg

Lab Sample ID: 880-34310-A-1-D MS

Matrix: Solid

Analysis Batch: 64695

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 104 F1 249 391.2 F1 mg/Kg 116 90 - 110

QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1 SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34311-1	S-1 (0-1')	Total/NA	Solid	5035	
880-34311-2	S-1 (1.5')	Total/NA	Solid	5035	
880-34311-3	S-1 (2')	Total/NA	Solid	5035	
MB 880-64502/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34311-1 MS	S-1 (0-1')	Total/NA	Solid	5035	
880-34311-1 MSD	S-1 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 64523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34311-1	S-1 (0-1')	Total/NA	Solid	8021B	64502
880-34311-2	S-1 (1.5')	Total/NA	Solid	8021B	64502
880-34311-3	S-1 (2')	Total/NA	Solid	8021B	64502
MB 880-64502/5-A	Method Blank	Total/NA	Solid	8021B	64502
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	8021B	64502
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64502
880-34311-1 MS	S-1 (0-1')	Total/NA	Solid	8021B	64502
880-34311-1 MSD	S-1 (0-1')	Total/NA	Solid	8021B	64502

Analysis Batch: 64675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34311-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-34311-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-34311-3	S-1 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34311-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-34311-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-34311-3	S-1 (2')	Total/NA	Solid	8015NM Prep	
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34311-1	S-1 (0-1')	Total/NA	Solid	8015B NM	64505
880-34311-2	S-1 (1.5')	Total/NA	Solid	8015B NM	64505
880-34311-3	S-1 (2')	Total/NA	Solid	8015B NM	64505
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015B NM	64505
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64505
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64505
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015B NM	64505
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64505

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QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1

SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 64714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34311-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-34311-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-34311-3	S-1 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34311-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-34311-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-34311-3	S-1 (2')	Soluble	Solid	DI Leach	
MB 880-64569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34310-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-34310-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	

Analysis Batch: 64695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34311-1	S-1 (0-1')	Soluble	Solid	300.0	64569
880-34311-2	S-1 (1.5')	Soluble	Solid	300.0	64569
880-34311-3	S-1 (2')	Soluble	Solid	300.0	64569
MB 880-64569/1-A	Method Blank	Soluble	Solid	300.0	64569
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	300.0	64569
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64569
880-34310-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64569
880-34310-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	64569

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1 SDG: Lea County, New Mexico

Client Sample ID: S-1 (0-1') Lab Sample ID: 880-34311-1

Matrix: Solid

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 19:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64675	10/12/23 19:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			64714	10/12/23 13:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 13:30	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 15:58	CH	EET MID

Client Sample ID: S-1 (1.5')

Date Collected: 10/10/23 00:00

Date Received: 10/11/23 14:19

Lab Sample ID: 880-34311-2

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 5.03 g Total/NA 5 mL 64502 10/11/23 15:04 MNR EET MID Total/NA 8021B 5 mL 10/12/23 12:06 **EET MID** Analysis 1 5 mL 64523 MNR Total/NA Total BTEX 64675 10/12/23 12:06 Analysis 1 SM **EET MID** Total/NA Analysis 8015 NM 64714 10/12/23 13:52 SM **EET MID** Total/NA 8015NM Prep 10/11/23 15:46 Prep 10.00 g 10 mL 64505 TKC EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 64518 10/12/23 13:52 SM **EET MID** Soluble 10/12/23 14:15 Leach DI Leach 5 g 50 mL 64569 AG **EET MID** Soluble Analysis 300.0 50 mL 50 mL 64695 10/15/23 16:03 СН **EET MID**

Client Sample ID: S-1 (2')

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Lab Sample ID: 880-34311-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 12:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64675	10/12/23 12:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			64714	10/12/23 14:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 14:14	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 16:09	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-34311-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400-23-26	06-30-24
0 ,		ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
for which the agency do	oes not offer certification. Prep Method	Matrix	Analyte	
8015 NM	1 TOP MOUNTOU	Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1

SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1

SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34311-1	S-1 (0-1')	Solid	10/10/23 00:00	10/11/23 14:19
880-34311-2	S-1 (1.5')	Solid	10/10/23 00:00	10/11/23 14:19
880-34311-3	S-1 (2')	Solid	10/10/23 00:00	10/11/23 14:19

Received by OCD: 12/5/2023 2:15:07 PM

e 10 Cos ony



880-34311 Chain of Custody

Project Name Project Number: Project Location Lea Co Sampler's Name PO #: SAMPLE RECEIPT Temp Received Intact: (res Cooler Custody Seals Yes N Total Containers Sample Identification	r West 3 State #2H 2154 ounty New Mexico CCM p Blank No Thermometer ID No NAA Correction Factor	Tur Routine Due Date Wet Ice or eading	Yes	te ZIP ri@mara	Pres. Code	990 T Houst	own a	il Corpor nd Coun (77024		AN	NALYSI	SRE	Stat Repo	e of Propriet	oject: evel II	БТ] Р Lev	RP [row	Preserva None NO	Level IV
City, State ZIP Midland TX 797 Phone Raptor Project Name Project Number Project Location Lea Co Sampler's Name PO #: SAMPLE RECEIPT Temp Received Intact: (res Cooler Custody Seals Yes N Total Containers Sample Identification	r West 3 State #2H 2154 ounty New Mexico CCM p Blank No No Thermometer ID No NA Correction Facto No NA Temperature Re	Tur Routine Due Date Wet Ice or eading	City, Starl I msanjar n Around Rusi 5 c	te ZIP ri@mara h day	Pres. Code	Houst	on TX		try Blvd	AN	NALYSI	S RE	Stat Repo	e of Propriet	oject: evel II	Lev	rel III	□sī	/UST	Level IV
Phone Project Name Project Number Project Location Sampler's Name Po #: SAMPLE RECEIPT Received Intact: Cooler Custody Seals Fotal Containers Sample Identification	r West 3 State #2H 2154 ounty New Mexico CCM p Blank Yes No No Thermometer ID No NAA Correction Facto No NA Temperature Re	Tur Routine Due Date Wet Ice or eading	n Around Russ 5 c	n@mara h day	Pres. Code			77024		AN	NALYSI	S RE	Deliv	/erable:					Preserva None NO	tive Codes
Project Name Project Number Project Location Lea Co Sampler's Name PO #: SAMPLE RECEIPT Temp Received Intact: res Cooler Custody Seals Yes N Total Containers Sample Identification	2154 Ounty New Mexico CCM P Blank No Thermometer ID No N/A Correction Factor No N/A Temperature Re	Tur Routine Due Date Wet Ice or eading	n Around Russ 5 c	h day	Pres. Code	om	MRO)			AN	NALYSI	S RE	Deliv	/erable:					Preserva None NO	tive Codes
Project Name Project Number Project Location Lea Co Sampler's Name PO #: SAMPLE RECEIPT Temp Received Intact: (res Cooler Custody Seals Yes N Total Containers Sample Identification	2154 Ounty New Mexico CCM P Blank No Thermometer ID No N/A Correction Factor No N/A Temperature Re	Vet Ice	Rusi 5 c	day	Code		MRO)			AN	NALYSI	S RE	QUEST						None NO	
Project Name Project Number Project Location Lea Co Sampler's Name PO #: SAMPLE RECEIPT Temp Received Intact: (res Cooler Custody Seals Yes N Total Containers Sample Identification	2154 Ounty New Mexico CCM P Blank No Thermometer ID No N/A Correction Factor No N/A Temperature Re	Vet Ice	Rusi 5 c	day	Code		MRO)			AN	NALYSI	RE	QUEST						None NO	
Project Location Lea Co Sampler's Name PO #: SAMPLE RECEIPT Temp Received Intact: res Cooler Custody Seals Yes N Total Containers Sample Identification	p Blank Yes No No Thermometer ID No NA Correction Factor No NA Temperature Re	Wet Ice	Yes	day	Code		MRO)												None NO	
Sampler's Name PO #: SAMPLE RECEIPT Temp Received Intact: (res Cooler Custody Seals Yes Sample Custody Seals Yes Total Containers Sample Identification	p Blank No Thermometer ID No NA Correction Facto No Temperature Re	Wet Ice	Yes	Мо			MRO)												1	DI Water H2
SAMPLE RECEIPT Received Intact: Cooler Custody Seals Sample Custody Seals Total Containers Sample Identification	p Blank Yes No Thermometer ID No N/A Correction Factor No N/A Temperature Re	or:	Yes	Мо	ters		MRO)					1	l	1	1	1	1	1		
Cooler Custody Seals Cotal Containers Sample Identification Temp Temp Temp Temp Temp Temp Temp Tem	No Thermometer ID No N/A Correction Factor No N/A Temperature Re	or:	M		ters		Σ	1 1	4					1	1		1		Cool Cool HCL HC	MeOH Me
teceived Intact: Res cooler Custody Seals Yes N sample Custody Seals Yes N cotal Containers	No Thermometer ID No N/A Correction Factor No N/A Temperature Re	or:	M		1 \$		+												H ₂ SO ₄ . H ₂	HNO₃. HN NaOH Na
cooler Custody Seals sample Custody Seals Yes otal Containers Sample Identification	No NA Correction Factor	or eading	1 2	197	1 0	В	ORO	300 0									H ₃ PO ₄ HP	NaOn Na		
ample Custody Seals Yes Notal Containers Sample Identification	No NA Temperature Re	eading	1	1	1 E	8021B	1+0	e 30	l										NaHSO4 NABIS	,
otal Containers Sample Identification] &	Ä	GR	orid											Na ₂ S ₂ O ₃ NaSC	
Sample Identification	Corrected Temp		-7	6		В.	5M (등											Zn Acetate+Nac	•
		erature	J. T. (4	1		801			- 1								1	NaOH+Ascorbio	
C 1 (0 41)	Date Time	Soil	Water	Grab/ Comp	# of Cont		ТРН													Comments
S-1 (0-1')	10/10/2023	X		G	1	Х	X	X				+	_	+-	┼	 		├		
S-1 (1 5')	10/10/2023	X		G	1	Х	Х	Х		\dashv		+	-	╁	+	<u> </u>	 	 		
S-1 (2')	10/10/2023	X		G	1	Х	Х	X		_		╁	+	+	 	 	 	╁──		
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omments Email results to Mike								1 1	1	- 1	- 1	-	1					I		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34311-1

SDG Number: Lea County, New Mexico

Login Number: 34311 List Source: Eurofins Midland

List Number: 1 Creator: Rodriguez, Leticia

Question Answer Comment The cooler's custody seal, if present, is intact. N/A N/A Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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

True

N/A

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MS/MSDs

<6mm (1/4").

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/16/2023 2:51:13 PM

JOB DESCRIPTION

Raptor West 3 State #2H SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34312-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

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

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Client: Carmona Resources Project/Site: Raptor West 3 State #2H Laboratory Job ID: 880-34312-1 SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources Job ID: 880-34312-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1

SDG: Lea County, New Mexico

Job ID: 880-34312-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-34312-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 10/11/2023 2:19 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 -7.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-2 (0-1') (880-34312-1), S-2 (1.5') (880-34312-2) and S-2 (2') (880-34312-3).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-34311-A-1-C). 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.

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: S-2 (1.5') (880-34312-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The continuing calibration verification (CCV) associated with batch 880-64518 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-64518/47).

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 880-64569 and analytical batch 880-64695 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: Carmona Resources Job ID: 880-34312-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Lab Sample ID: 880-34312-1 Client Sample ID: S-2 (0-1')

Date Collected: 10/10/23 00:00 Matrix: Solid Date Received: 10/11/23 14:19

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:04	10/12/23 12:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:04	10/12/23 12:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:04	10/12/23 12:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/11/23 15:04	10/12/23 12:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:04	10/12/23 12:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/11/23 15:04	10/12/23 12:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				10/11/23 15:04	10/12/23 12:47	1
1,4-Difluorobenzene (Surr)	108		70 - 130				10/11/23 15:04	10/12/23 12:47	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/12/23 12:47	1
_ Method: SW846 8015 NM - Die	sel Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1360		50.3		mg/Kg			10/12/23 14:58	1
- Method: SW846 8015B NM - D	iesel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
									Dil Fac
Gasoline Range Organics	<50.3	U	50.3		mg/Kg		10/11/23 15:46	10/12/23 14:58	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.3 1280	U	50.3		mg/Kg mg/Kg		10/11/23 15:46 10/11/23 15:46		1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	1280	U	50.3		mg/Kg		10/11/23 15:46	10/12/23 14:58 10/12/23 14:58	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over		U						10/12/23 14:58	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	1280	U	50.3		mg/Kg		10/11/23 15:46	10/12/23 14:58 10/12/23 14:58	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	1280		50.3		mg/Kg		10/11/23 15:46	10/12/23 14:58 10/12/23 14:58	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	1280 76.2		50.3		mg/Kg		10/11/23 15:46 10/11/23 15:46	10/12/23 14:58 10/12/23 14:58 10/12/23 14:58	1 1 1 <i>Dil Fac</i>
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	1280 76.2 %Recovery		50.3 50.3		mg/Kg		10/11/23 15:46 10/11/23 15:46 Prepared	10/12/23 14:58 10/12/23 14:58 10/12/23 14:58 10/12/23 14:58 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	1280 76.2 %Recovery 99 99	Qualifier	50.3 50.3 Limits 70 - 130 70 - 130		mg/Kg		10/11/23 15:46 10/11/23 15:46 Prepared 10/11/23 15:46	10/12/23 14:58 10/12/23 14:58 10/12/23 14:58 10/12/23 14:58 Analyzed 10/12/23 14:58	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	1280 76.2 **Recovery 99 99 on Chromatograp	Qualifier	50.3 50.3 Limits 70 - 130 70 - 130	MDL	mg/Kg		10/11/23 15:46 10/11/23 15:46 Prepared 10/11/23 15:46	10/12/23 14:58 10/12/23 14:58 10/12/23 14:58 10/12/23 14:58 Analyzed 10/12/23 14:58	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: S-2 (1.5') Lab Sample ID: 880-34312-2 Date Collected: 10/10/23 00:00 Matrix: Solid

Date Received: 10/11/23 14:19

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 13:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 13:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 13:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/11/23 15:04	10/12/23 13:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 13:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/11/23 15:04	10/12/23 13:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				10/11/23 15:04	10/12/23 13:07	1
1,4-Difluorobenzene (Surr)	82		70 - 130				10/11/23 15:04	10/12/23 13:07	1

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10/16/2023

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1

SDG: Lea County, New Mexico

Client Sample ID: S-2 (1.5')

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Lab Sample ID: 880-34312-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/12/23 13:07	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	105		50.2		mg/Kg			10/12/23 15:42	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.2	U	50.2		mg/Kg		10/11/23 15:46	10/12/23 15:42	1
(GRO)-C6-C10									
Diesel Range Organics (Over	105		50.2		mg/Kg		10/11/23 15:46	10/12/23 15:42	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		10/11/23 15:46	10/12/23 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				10/11/23 15:46	10/12/23 15:42	1
o-Terphenyl	132	S1+	70 - 130				10/11/23 15:46	10/12/23 15:42	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	833		5.02		mg/Kg			10/15/23 16:32	

Client Sample ID: S-2 (2') Lab Sample ID: 880-34312-3 Date Collected: 10/10/23 00:00 **Matrix: Solid**

Date Received: 10/11/23 14:19

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 13:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 13:28	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 13:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 13:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 13:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				10/11/23 15:04	10/12/23 13:28	1
			70 400				10/11/23 15:04	10/12/23 13:28	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte		culation Qualifier	70 ₋ 130 RL	MDL	Unit	D	Prepared	Analyzed	
Method: TAL SOP Total BTEX	- Total BTEX Cald					_			
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U	RL 0.00398		mg/Kg	<u> </u>	Prepared	Analyzed 10/12/23 13:28	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00398 esel Range Organ Result	Qualifier U ics (DRO) (Qualifier	RL 0.00398			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00398		mg/Kg	<u> </u>	Prepared	Analyzed 10/12/23 13:28	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00398 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 49.9		mg/Kg	<u> </u>	Prepared	Analyzed 10/12/23 13:28 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00398 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 49.9	MDL	mg/Kg	<u> </u>	Prepared	Analyzed 10/12/23 13:28 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00398 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00398 GC) RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 10/12/23 13:28 Analyzed 10/12/23 16:04	Dil Fac

Client Sample ID: S-2 (2')

Client Sample Results

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

SDG: Lea C

Job ID: 880-34312-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-34312-3

Matrix: Solid

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Method: SW846 8015B NM - Dies	• •	INICS (DRO) Qualifier	(GC) (Continue RL	(d) MDL Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9		49.9	mg/Kg	_ =	10/11/23 15:46	10/12/23 16:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			10/11/23 15:46	10/12/23 16:04	1
			70 - 130			10/11/23 15:46	10/12/23 16:04	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	117		5.03		mg/Kg			10/15/23 16:37	1

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-34312-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	· · · · · · · · · · · · · · · · ·
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-34311-A-1-A MS	Matrix Spike	122	100	
880-34311-A-1-B MSD	Matrix Spike Duplicate	115	104	
880-34312-1	S-2 (0-1')	113	108	
880-34312-2	S-2 (1.5')	81	82	
880-34312-3	S-2 (2')	83	93	
LCS 880-64502/1-A	Lab Control Sample	128	109	
LCSD 880-64502/2-A	Lab Control Sample Dup	128	101	
MB 880-64502/5-A	Method Blank	80	91	

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 Limit
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
30-34290-A-4-E MS	Matrix Spike	97	92	
80-34290-A-4-F MSD	Matrix Spike Duplicate	97	91	
80-34312-1	S-2 (0-1')	99	99	
80-34312-2	S-2 (1.5')	124	132 S1+	
80-34312-3	S-2 (2')	107	122	
CS 880-64505/2-A	Lab Control Sample	97	103	
CSD 880-64505/3-A	Lab Control Sample Dup	84	90	
B 880-64505/1-A	Method Blank	96	109	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources Job ID: 880-34312-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64502/5-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64502

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	10/11/23 15:04	10/12/23 11:23	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/11/23 15:04	10/12/23 11:23	1

Lab Sample ID: LCS 880-64502/1-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64502

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07857 mg/Kg 79 70 - 130 Toluene 0.100 0.07926 mg/Kg 79 70 - 130 0.100 Ethylbenzene 0.09043 mg/Kg 90 70 - 130 0.200 0.1946 97 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 o-Xylene 0.09961 mg/Kg 100 70 - 130

LCS LCS

Surrogate	%Recovery Quali	fier Limits
4-Bromofluorobenzene (Surr)	128	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: LCSD 880-64502/2-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 64502

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit 0.08430 Benzene 0.100 mg/Kg 84 70 - 130 35 Toluene 0.100 0.07828 mg/Kg 78 70 - 130 35 Ethylbenzene 0.100 0.08874 mg/Kg 89 70 - 130 2 35 0.200 m-Xylene & p-Xylene 0.1787 mg/Kg 89 70 - 130 35 0.100 0.1040 o-Xylene mg/Kg 104 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1.4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-34311-A-1-A MS

Matrix: Solid

Analysis Batch: 64523

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

Prep Batch: 64502

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.09524		mg/Kg	_	96	70 - 130	
Toluene	<0.00200	U	0.0996	0.09387		mg/Kg		94	70 - 130	

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QC Sample Results

Client: Carmona Resources Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1

SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34311-A-1-A MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 64523

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0996	0.1043		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2282		mg/Kg		115	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.1141		mg/Kg		115	70 - 130	

MS MS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-34311-A-1-B MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 64523

Prep Type: Total/NA

Prep Batch: 64502

Prep Batch: 64502

Sample Sample Spike MSD MSD RPD Result Qualifier Added RPD Limit Analyte Result Qualifier %Rec Limits Unit Benzene <0.00200 U 0.0990 0.08499 mg/Kg 86 70 - 130 11 35 Toluene <0.00200 U 0.0990 0.08138 mg/Kg 82 70 - 130 14 35 Ethylbenzene <0.00200 U 0.0990 0.08808 89 70 - 130 17 35 mg/Kg 0.198 m-Xylene & p-Xylene <0.00401 U 0.1873 mg/Kg 95 70 - 130 20 35 0.0990 <0.00200 U 0.09482 96 70 - 130 o-Xylene mg/Kg 18

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-64505/1-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 64518

Prep Type: Total/NA Prep Batch: 64505

MB MB Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte 50.0 10/11/23 15:46 10/12/23 08:09 <50.0 U Gasoline Range Organics mg/Kg (GRO)-C6-C10 10/12/23 08:09 Diesel Range Organics (Over <50.0 U 50.0 10/11/23 15:46 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 10/11/23 15:46 10/12/23 08:09 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepai	red	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	10/11/23	15:46	10/12/23 08:09	1
o-Terphenyl	109		70 - 130	10/11/23	15:46	10/12/23 08:09	1

Lab Sample ID: LCS 880-64505/2-A

Matrix: Solid

Analysis Batch: 64518

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

Prep Batch: 64505

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	952.4		mg/Kg		95	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	912.6		mg/Kg		91	70 - 130	
C10-C28)								

Limits

70 - 130

70 - 130

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Job ID: 880-34312-1

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

LCS LCS

%Recovery Qualifier

97

103

Lab Sample ID: LCS 880-64505/2-A

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

Analysis Batch: 64518

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64505

_		
Lab Sample	ID: LCSD	880-64505/3-A

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64505

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	856.3		mg/Kg		86	70 - 130	11	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	786.7		mg/Kg		79	70 - 130	15	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-34290-A-4-E MS

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64505

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	994	1158		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	994	889.8		mg/Kg		87	70 - 130

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

Lab Sample ID: 880-34290-A-4-F MSD

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64505

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	994	1187		mg/Kg		116	70 - 130	2	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	994	893.7		mg/Kg		87	70 - 130	0	20
C10-C28)											

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

QC Sample Results

Client: Carmona Resources Project/Site: Raptor West 3 State #2H Job ID: 880-34312-1

SDG: Lea County, New Mexico

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike

Prep Type: Soluble

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64569/1-A

Matrix: Solid

Analysis Batch: 64695

мв мв

Dil Fac MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 10/15/23 15:18

Lab Sample ID: LCS 880-64569/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 64695

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 274.9 mg/Kg 110 90 - 110

Lab Sample ID: LCSD 880-64569/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 64695

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit Limits RPD Limit Chloride 250 273.8 110 90 - 110 mg/Kg

Lab Sample ID: 880-34310-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 64695

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier %Rec RPD Limit Unit Limits 390.0 F1 Chloride 104 F1 249 115 90 - 110 20 mg/Kg

Lab Sample ID: 880-34310-A-1-D MS

Matrix: Solid

Analysis Batch: 64695

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 104 F1 249 391.2 F1 mg/Kg 116 90 - 110

QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1

SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34312-1	S-2 (0-1')	Total/NA	Solid	5035	
880-34312-2	S-2 (1.5')	Total/NA	Solid	5035	
880-34312-3	S-2 (2')	Total/NA	Solid	5035	
MB 880-64502/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34312-1	S-2 (0-1')	Total/NA	Solid	8021B	64502
880-34312-2	S-2 (1.5')	Total/NA	Solid	8021B	64502
880-34312-3	S-2 (2')	Total/NA	Solid	8021B	64502
MB 880-64502/5-A	Method Blank	Total/NA	Solid	8021B	64502
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	8021B	64502
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64502
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	64502
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64502

Analysis Batch: 64676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34312-1	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-34312-2	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-34312-3	S-2 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34312-1	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-34312-2	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-34312-3	S-2 (2')	Total/NA	Solid	8015NM Prep	
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34312-1	S-2 (0-1')	Total/NA	Solid	8015B NM	64505
880-34312-2	S-2 (1.5')	Total/NA	Solid	8015B NM	64505
880-34312-3	S-2 (2')	Total/NA	Solid	8015B NM	64505
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015B NM	64505
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64505
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64505
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015B NM	64505
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64505

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QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1

SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 64716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34312-1	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-34312-2	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-34312-3	S-2 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34312-1	S-2 (0-1')	Soluble	Solid	DI Leach	
880-34312-2	S-2 (1.5')	Soluble	Solid	DI Leach	
880-34312-3	S-2 (2')	Soluble	Solid	DI Leach	
MB 880-64569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34310-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-34310-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	

Analysis Batch: 64695

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34312-1	S-2 (0-1')	Soluble	Solid	300.0	64569
880-34312-2	S-2 (1.5')	Soluble	Solid	300.0	64569
880-34312-3	S-2 (2')	Soluble	Solid	300.0	64569
MB 880-64569/1-A	Method Blank	Soluble	Solid	300.0	64569
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	300.0	64569
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64569
880-34310-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64569
880-34310-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	64569

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1 SDG: Lea County, New Mexico

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

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Lab Sample ID: 880-34312-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 12:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64676	10/12/23 12:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			64716	10/12/23 14:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 14:58	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 16:26	CH	EET MID

Lab Sample ID: 880-34312-2

Matrix: Solid

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Client Sample ID: S-2 (1.5')

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 4.99 g 5 mL 64502 10/11/23 15:04 MNR EET MID Total/NA 8021B 5 mL **EET MID** Analysis 1 5 mL 64523 10/12/23 13:07 MNR Total/NA Total BTEX 64676 10/12/23 13:07 SM Analysis **EET MID** 1 Total/NA Analysis 8015 NM 64716 10/12/23 15:42 SM **EET MID** Total/NA 8015NM Prep 10/11/23 15:46 Prep 9.97 g 10 mL 64505 TKC EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 64518 10/12/23 15:42 SM **EET MID** Soluble 10/12/23 14:15 Leach DI Leach 4.98 g 50 mL 64569 AG **EET MID** Soluble Analysis 300.0 50 mL 50 mL 64695 10/15/23 16:32 СН **EET MID**

Client Sample ID: S-2 (2')

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Lab Sample ID: 880-34312-3

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 13:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64676	10/12/23 13:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			64716	10/12/23 16:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 16:04	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 16:37	CH	EET MID

Laboratory References:

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

Eurofins Midland

Matrix: Solid

Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-34312-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Progr	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400-23-26	06-30-24
• .	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1

SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

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Sample Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1

SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34312-1	S-2 (0-1')	Solid	10/10/23 00:00	10/11/23 14:19
880-34312-2	S-2 (1.5')	Solid	10/10/23 00:00	10/11/23 14:19
880-34312-3	S-2 (2')	Solid	10/10/23 00:00	10/11/23 14:19

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roject Name	Rapt	or West 3 Stat	te #2H	Tur	n Around							А	NAL	/SIS R	EQUES	т					Preserva	ative Codes
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Sample iden	tification	Date	Time	Soil	Water	Grab/ Comp	# of Cont		ТРН					-							<u> </u>	Comments
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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34312-1

SDG Number: Lea County, New Mexico

ODG Hambor. Loa County, New Mexico

List Source: Eurofins Midland

Login Number: 34312 List Number: 1

Creator: Rodriguez, Leticia

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Raptor West 3 State #2H SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34313-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

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Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 2

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Client: Carmona Resources Project/Site: Raptor West 3 State #2H Laboratory Job ID: 880-34313-1 SDG: Lea County, New Mexico

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Definitions/Glossary

Job ID: 880-34313-1 Client: Carmona Resources Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

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 Colony Forming Unit CFU **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

Toxicity Equivalent Factor (Dioxin) TFF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1

SDG: Lea County, New Mexico

Job ID: 880-34313-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-34313-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 10/11/2023 2:19 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 -7.6°C

Receipt Exceptions

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-34311-A-1-C). 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.

GC Semi VOA

Method 8015MOD NM: The continuing calibration verification (CCV) associated with batch 880-64518 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-64518/47).

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: Carmona Resources

Job ID: 880-34313-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Lab Sample ID: 880-34313-1

Client Sample ID: S-3 (0-1') Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 13:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 13:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 13:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 13:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 13:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				10/11/23 15:04	10/12/23 13:48	1
1,4-Difluorobenzene (Surr)	96		70 - 130				10/11/23 15:04	10/12/23 13:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00398 U 0.00398 mg/Kg 10/12/23 13:48

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 50.2 10/12/23 14:36 **Total TPH** 1930 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <50.2 U Gasoline Range Organics 50.2 10/11/23 15:46 10/12/23 14:36 mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 1790 50.2 mg/Kg 10/11/23 15:46 10/12/23 14:36 C10-C28) **Oll Range Organics (Over** 50.2 mg/Kg 10/11/23 15:46 10/12/23 14:36 143 C28-C36)

%Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane 70 - 130 10/11/23 15:46 10/12/23 14:36 103 o-Terphenyl 101 70 - 130 10/11/23 15:46 10/12/23 14:36

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier MDL Unit D Dil Fac RL Prepared Analyzed 5.05 10/15/23 16:43 Chloride 263 mg/Kg

Client Sample ID: S-3 (1.5') Lab Sample ID: 880-34313-2 Date Collected: 10/10/23 00:00

Date Received: 10/11/23 14:19

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 14:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 14:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 14:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/11/23 15:04	10/12/23 14:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 14:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/11/23 15:04	10/12/23 14:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				10/11/23 15:04	10/12/23 14:09	1
1,4-Difluorobenzene (Surr)	74		70 - 130				10/11/23 15:04	10/12/23 14:09	1

Eurofins Midland

Matrix: Solid

Page 6 of 21 Released to Imaging: 12/11/2023 1:08:13 PM

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-34313-2

Matrix: Solid

Client Sample ID: S-3 (1.5') Date Collected: 10/10/23 00:00

Date Received: 10/11/23 14:19

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/12/23 14:09	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	90.5		50.1		mg/Kg			10/12/23 16:26	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U	50.1		mg/Kg		10/11/23 15:46	10/12/23 16:26	1
(GRO)-C6-C10									
Diesel Range Organics (Over	90.5		50.1		mg/Kg		10/11/23 15:46	10/12/23 16:26	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/11/23 15:46	10/12/23 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				10/11/23 15:46	10/12/23 16:26	1
o-Terphenyl	111		70 - 130				10/11/23 15:46	10/12/23 16:26	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solub	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	995		5.04		mg/Kg			10/15/23 16:48	

Client Sample ID: S-3 (2') Lab Sample ID: 880-34313-3 Date Collected: 10/10/23 00:00 **Matrix: Solid**

Date Received: 10/11/23 14:19

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 14:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 14:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 14:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/11/23 15:04	10/12/23 14:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 14:29	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/11/23 15:04	10/12/23 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				10/11/23 15:04	10/12/23 14:29	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX -	72 Total BTEX Cald	culation	70 - 130				10/11/23 15:04	10/12/23 14:29	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Analyte	Total BTEX Calc	Qualifier	RL	MDL	Unit	<u>D</u>	10/11/23 15:04 Prepared	Analyzed	•
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX -	Total BTEX Cald Result <0.00401	Qualifier U	RL 0.00401	MDL	Unit mg/Kg	<u>D</u>			Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Analyte Total BTEX	Total BTEX Calc Result <0.00401 el Range Organ	Qualifier U	RL 0.00401			<u>D</u>		Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Diese	Total BTEX Calc Result <0.00401 el Range Organ	Qualifier U ics (DRO) (Qualifier	RL		mg/Kg		Prepared	Analyzed 10/12/23 14:29	•
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Total BTEX Calc Result <0.00401 el Range Organ Result <50.5	Qualifier U ics (DRO) (Qualifier U	RL 0.00401 GC) RL 50.5		mg/Kg		Prepared	Analyzed 10/12/23 14:29 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	Total BTEX Calc Result <0.00401 el Range Organ Result <50.5 sel Range Orga	Qualifier U ics (DRO) (Qualifier U	RL 0.00401 GC) RL 50.5	MDL	mg/Kg		Prepared	Analyzed 10/12/23 14:29 Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die	Total BTEX Calc Result <0.00401 el Range Organ Result <50.5 sel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00401 GC) RL 50.5	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 10/12/23 14:29 Analyzed 10/12/23 16:48	Dil Fac

Client: Carmona Resources Job ID: 880-34313-1 Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Client Sample ID: S-3 (2')

Lab Sample ID: 880-34313-3

Matrix: Solid

Date	Collected:	10/10/23	00:00
Date	Received:	10/11/23	14:19

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		10/11/23 15:46	10/12/23 16:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			10/11/23 15:46	10/12/23 16:48	1
o-Terphenyl	116		70 - 130			10/11/23 15:46	10/12/23 16:48	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		4.98		mg/Kg			10/15/23 16:54	1

Surrogate Summary

Client: Carmona Resources Job ID: 880-34313-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recov
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-34311-A-1-A MS	Matrix Spike	122	100	
880-34311-A-1-B MSD	Matrix Spike Duplicate	115	104	
880-34313-1	S-3 (0-1')	88	96	
880-34313-2	S-3 (1.5')	85	74	
880-34313-3	S-3 (2')	88	72	
LCS 880-64502/1-A	Lab Control Sample	128	109	
LCSD 880-64502/2-A	Lab Control Sample Dup	128	101	
MB 880-64502/5-A	Method Blank	80	91	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-34290-A-4-E MS	Matrix Spike	97	92	
880-34290-A-4-F MSD	Matrix Spike Duplicate	97	91	
880-34313-1	S-3 (0-1')	103	101	
880-34313-2	S-3 (1.5')	105	111	
880-34313-3	S-3 (2')	108	116	
LCS 880-64505/2-A	Lab Control Sample	97	103	
LCSD 880-64505/3-A	Lab Control Sample Dup	84	90	
MB 880-64505/1-A	Method Blank	96	109	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources Job ID: 880-34313-1 SDG: Lea County, New Mexico Project/Site: Raptor West 3 State #2H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64502/5-A

Matrix: Solid Analysis Batch: 64523 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64502

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1

мв мв

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	10/11/23 15:04	10/12/23 11:23	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/11/23 15:04	10/12/23 11:23	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-64502/1-A

Matrix: Solid

Analysis Batch: 64523

Prep Type: Total/NA

Prep Batch: 64502

	Бріке	LUS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07857		mg/Kg		79	70 - 130	
Toluene	0.100	0.07926		mg/Kg		79	70 - 130	
Ethylbenzene	0.100	0.09043		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.1946		mg/Kg		97	70 - 130	
o-Xylene	0.100	0.09961		mg/Kg		100	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	128	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: LCSD 880-64502/2-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64502

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08430		mg/Kg		84	70 - 130	7	35
Toluene	0.100	0.07828		mg/Kg		78	70 - 130	1	35
Ethylbenzene	0.100	0.08874		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1787		mg/Kg		89	70 - 130	9	35
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1.4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-34311-A-1-A MS

Matrix: Solid

Analysis Batch: 64523

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

Prep Batch: 64502

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.09524		mg/Kg		96	70 - 130	
Toluene	<0.00200	U	0.0996	0.09387		mg/Kg		94	70 - 130	

QC Sample Results

Client: Carmona Resources Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1 SDG: Lea County, New Mexico

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

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

Lab Sample ID: 880-34311-A-1-A MS **Matrix: Solid**

Analysis Batch: 64523									Prep	Batch: 64502
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0996	0.1043		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2282		mg/Kg		115	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.1141		mg/Kg		115	70 - 130	

MS MS %Recovery Qualifier Limits 70 - 130 122 70 - 130

100

Lab Sample ID: 880-34311-A-1-B MSD

Matrix: Solid

Surrogate

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Batch: 64523									Prep	Batch:	64502
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.08499		mg/Kg		86	70 - 130	11	35
Toluene	<0.00200	U	0.0990	0.08138		mg/Kg		82	70 - 130	14	35
Ethylbenzene	<0.00200	U	0.0990	0.08808		mg/Kg		89	70 - 130	17	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1873		mg/Kg		95	70 - 130	20	35
o-Xylene	<0.00200	U	0.0990	0.09482		mg/Kg		96	70 - 130	18	35

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 115 1,4-Difluorobenzene (Surr) 104 70 - 130

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

Lab Sample ID: MB 880-64505/1-A

Matrix: Solid

Analysis Batch: 64518

	Client Sample ID: Method Blank
	Prep Type: Total/NA
	Prep Batch: 64505
MB MB	

	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
	(GRO)-C6-C10									
	Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
	C10-C28)									
	OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
ı										

MB MB %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 1-Chlorooctane 96 70 - 130 10/11/23 15:46 10/12/23 08:09 109 70 - 130 10/11/23 15:46 10/12/23 08:09 o-Terphenyl

Lab Sample ID: LCS 880-64505/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid							Prep Ty	pe: Total/N	Α
Analysis Batch: 64518							Prep I	Batch: 6450	5
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	952.4		mg/Kg		95	70 - 130		_
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	912.6		mg/Kg		91	70 - 130		
C10-C28)									

Project/Site: Raptor West 3 State #2H

Client: Carmona Resources

Job ID: 880-34313-1

SDG: Lea County, New Mexico

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

LCS LCS

Lab Sample ID: LCS 880-64505/2-A

Lab Sample ID: LCSD 880-64505/3-A

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64505

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 97 70 - 130 o-Terphenyl 103 70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 64518 Prep Batch: 64505 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit

1000 856.3 86 70 - 13011 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 786.7 79 mg/Kg 70 - 13020 15

C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 84 90 70 - 130 o-Terphenyl

Lab Sample ID: 880-34290-A-4-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 64518

Prep Type: Total/NA

Prep Batch: 64505

Sample Sample MS MS Spike Added Result Qualifier Result Qualifier Unit D %Rec Limits

Analyte Gasoline Range Organics <49.9 U 994 1158 mg/Kg 113 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 994 889.8 mg/Kg 87 70 - 130

C10-C28)

MS MS

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

Lab Sample ID: 880-34290-A-4-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 64518

Prep Type: Total/NA

Prep Batch: 64505

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U Gasoline Range Organics <49.9 994 1187 116 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 994 893.7 mg/Kg 87 70 - 130 20

C10-C28)

MSD MSD

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

QC Sample Results

Client: Carmona Resources Job ID: 880-34313-1 Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Client Sample ID: Method Blank

Prep Type: Soluble

Client Sample ID: S-3 (2')

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64569/1-A

Matrix: Solid

Analysis Batch: 64695

MB MB

MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 10/15/23 15:18

Lab Sample ID: LCS 880-64569/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 64695

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 274.9 mg/Kg 110 90 - 110

Lab Sample ID: LCSD 880-64569/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 64695

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 273.8 mg/Kg 110 90 - 110

Lab Sample ID: 880-34313-3 MS Client Sample ID: S-3 (2') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 64695

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 403.0 Chloride 129 249 110 90 - 110 mg/Kg

Lab Sample ID: 880-34313-3 MSD

Matrix: Solid

Analysis Batch: 64695

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 249 129 402.6 mg/Kg 110 90 - 110 20

QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1 SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34313-1	S-3 (0-1')	Total/NA	Solid	5035	
880-34313-2	S-3 (1.5')	Total/NA	Solid	5035	
880-34313-3	S-3 (2')	Total/NA	Solid	5035	
MB 880-64502/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34313-1	S-3 (0-1')	Total/NA	Solid	8021B	64502
880-34313-2	S-3 (1.5')	Total/NA	Solid	8021B	64502
880-34313-3	S-3 (2')	Total/NA	Solid	8021B	64502
MB 880-64502/5-A	Method Blank	Total/NA	Solid	8021B	64502
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	8021B	64502
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64502
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	64502
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64502

Analysis Batch: 64677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34313-1	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-34313-2	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-34313-3	S-3 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34313-1	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-34313-2	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-34313-3	S-3 (2')	Total/NA	Solid	8015NM Prep	
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34313-1	S-3 (0-1')	Total/NA	Solid	8015B NM	64505
880-34313-2	S-3 (1.5')	Total/NA	Solid	8015B NM	64505
880-34313-3	S-3 (2')	Total/NA	Solid	8015B NM	64505
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015B NM	64505
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64505
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64505
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015B NM	64505
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64505

Eurofins Midland

4

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12

QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1

SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 64715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34313-1	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-34313-2	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-34313-3	S-3 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34313-1	S-3 (0-1')	Soluble	Solid	DI Leach	
880-34313-2	S-3 (1.5')	Soluble	Solid	DI Leach	
880-34313-3	S-3 (2')	Soluble	Solid	DI Leach	
MB 880-64569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34313-3 MS	S-3 (2')	Soluble	Solid	DI Leach	
880-34313-3 MSD	S-3 (2')	Soluble	Solid	DI Leach	

Analysis Batch: 64695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34313-1	S-3 (0-1')	Soluble	Solid	300.0	64569
880-34313-2	S-3 (1.5')	Soluble	Solid	300.0	64569
880-34313-3	S-3 (2')	Soluble	Solid	300.0	64569
MB 880-64569/1-A	Method Blank	Soluble	Solid	300.0	64569
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	300.0	64569
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64569
880-34313-3 MS	S-3 (2')	Soluble	Solid	300.0	64569
880-34313-3 MSD	S-3 (2')	Soluble	Solid	300.0	64569

Date Collected: 10/10/23 00:00

Date Received: 10/11/23 14:19

Client Sample ID: S-3 (0-1') Lab Sample ID: 880-34313-1

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.03 g 5 mL 64502 10/11/23 15:04 MNR **EET MID** 8021B Total/NA Analysis 1 5 mL 5 mL 64523 10/12/23 13:48 MNR **EET MID** Total/NA Analysis Total BTEX 64677 10/12/23 13:48 SM **EET MID** Total/NA 8015 NM 10/12/23 14:36 **EET MID** Analysis 1 64715 SM Total/NA 8015NM Prep 9.96 g 64505 10/11/23 15:46 TKC EET MID Prep 10 mL Total/NA Analysis 8015B NM 1 uL 1 uL 64518 10/12/23 14:36 SM **EET MID** Soluble DI Leach 4.95 g 50 mL 64569 10/12/23 14:15 AG Leach **EET MID** Soluble Analysis 300.0 50 mL 50 mL 64695 10/15/23 16:43 СН **EET MID**

Client Sample ID: S-3 (1.5') Lab Sample ID: 880-34313-2

Date Collected: 10/10/23 00:00 **Matrix: Solid**

Date Received: 10/11/23 14:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 14:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64677	10/12/23 14:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			64715	10/12/23 16:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 16:26	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 16:48	CH	EET MID

Client Sample ID: S-3 (2') Lab Sample ID: 880-34313-3

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 14:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64677	10/12/23 14:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			64715	10/12/23 16:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 16:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 16:54	CH	EET MID

Laboratory References:

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

Eurofins Midland

Matrix: Solid

Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-34313-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date	
Texas	NELA	Р	T104704400-23-26	06-30-24	
,	are included in this report, but oes not offer certification.	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX	IBTEX		Total BTEX		

Method Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1

SDG: Lea County, New Mexico

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

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Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1

SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34313-1	S-3 (0-1')	Solid	10/10/23 00:00	10/11/23 14:19
880-34313-2	S-3 (1.5')	Solid	10/10/23 00:00	10/11/23 14:19
880-34313-3	S-3 (2')	Solid	10/10/23 00:00	10/11/23 14:19

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Received by OCD: 12/5/2023 2:15:07 PM

10/16/2023

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Project Manager Company Name Address	Clinton Merritt							i							7 6							
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	Carmona Reso				Company	Name		Marat	hon Oi	l Corpo	ration								□PR	P 📗 ro	wnfields [RC Diperfund
	310 W Wall St				Address			990 T	own ar	nd Cour	ntry Blvd				1	State o						
City, State ZIP	Midland TX 79	701			City, Stat	e ZIP		Houst	on TX	77024	*									III 🗀:	ST/UST 🔲	RRP Level IV
Phone				Email	msanjar	ı@mara	thonoil c	<u>om</u>							<u> </u>	Deliver	ables	EDD		ADa	aPT 🗆	Other ⁻
	Rant	or West 3 Stat																				
Project Name	Кир	or vvcot o otal		Turn	Around							Α	NAL	YSIS R	EQU	EST					Pres	servative Codes
Project Number		2154		☑ Routine	Rush)	Pres. Code														None NC	
Project Location	Lea	County, New N	/lexico	Due Date	5 d	ау									1						Cool Coo	
Sampler's Name		ССМ			***************************************				RO)						1		1				HCL HC	HNO ₃ HN
PO #-							ıρ								1				1		H ₂ S0 ₄ . H ₂	
SAMPLE RECE	IPT Ter	np Blank	Yes No	Wet Ice	Yes	No	Parameters	8	ORO	0.0					l						H₃PO₄ H	
Received Intact:		s) No	Thermometer ID	***************************************	TW	9,	l E	BTEX 8021B] + C	Chloride 300				l		1		1			NaHSO ₄	
Cooler Custody Seal	s Yes	NO (N/A)	Correction Facto	r.	7.	20	Pa	ĒX	GR	orid					1		1		l		Na S ₂ O ₃	
Sample Custody Sea	als Yes	No WA	Temperature Re	ading		6		60	5M (당				1		-	1		į		1	e+NaOH Zn
otal Containers			Corrected Tempo	erature		<u>. Y</u>			TPH 8015M (GRO + DRO + MRO)					l		l	1				NaOH+As	corbic Acid SAPC
Sample Ide	ntification	Date	Time	Soil	Water	Grab/ Comp	# of Cont		ТРН												San	nple Comments
S-3 (0	D-1')	10/10/2023		Х	1	G	1	Х	Х	Х									-+	-+		-
S-3 (1 5')	10/10/2023		Х	1	G	1	Х	Х	Х												
S-3 ((2')	10/10/2023		X	 	G	1	Х	Х	Х				+			┉╂		-+	_		
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Comments Ema	ıl results to Mik	e Carmona n	ncarmona@car	monaresourc	es com, (Conner	Moehrir	ig cm	oehrii	ng@ca	armona	iresou	urces	.com,	Clint	Merri	tt Me	rrittC(@carr	nonare	sources co	m
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5	>			***************************************			†		····						***************************************		43	-()	'	0/		20.0.7.1110

Login Sample Receipt Checklist

Client: Carmona Resources Job Number: 880-34313-1 SDG Number: Lea County, New Mexico

Login Number: 34313 List Source: Eurofins Midland List Number: 1

Creator: Rodriguez, Leticia

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

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10/16/2023

Released to Imaging: 12/11/2023 1:08:13 PM

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/16/2023 2:52:28 PM

JOB DESCRIPTION

Raptor West 3 State #2H SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34314-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 10/16/2023 2:52:28 PM

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

13

Client: Carmona Resources Project/Site: Raptor West 3 State #2H Laboratory Job ID: 880-34314-1 SDG: Lea County, New Mexico

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Definitions/Glossary

Job ID: 880-34314-1 Client: Carmona Resources Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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 Method Quantitation Limit MQL

NC Not Calculated

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

NFG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1

SDG: Lea County, New Mexico

Job ID: 880-34314-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-34314-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 10/11/2023 2:19 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 -7.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-4 (0-1') (880-34314-1), S-4 (1.5') (880-34314-2) and S-4 (2') (880-34314-3).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-34311-A-1-C). 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.

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: S-4 (0-1') (880-34314-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The continuing calibration verification (CCV) associated with batch 880-64518 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-64518/47).

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: Carmona Resources Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

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

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Lab Sample ID: 880-34314-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 14:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 14:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 14:50	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/11/23 15:04	10/12/23 14:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 14:50	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/11/23 15:04	10/12/23 14:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				10/11/23 15:04	10/12/23 14:50	1
1,4-Difluorobenzene (Surr)	75		70 - 130				10/11/23 15:04	10/12/23 14:50	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	П	0.00404		mg/Kg			10/12/23 14:50	1
Method: SW846 8015 NM - Diese					mg/Kg			10/12/23 14:30	'
- -	el Range Organ			MDL		D	Prepared	Analyzed	·
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)	MDL		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result 239	ics (DRO) ((GC) RL 49.8	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result 239 sel Range Orga	ics (DRO) ((GC) RL 49.8	MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result 239 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.8 (GC)		Unit mg/Kg	_ =	<u> </u>	Analyzed 10/12/23 17:10	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	el Range Organ Result 239 sel Range Orga Result	Qualifier nics (DRO) Qualifier	(GC) RL RL		Unit mg/Kg	_ =	Prepared	Analyzed 10/12/23 17:10 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result 239 sel Range Orga Result	Qualifier nics (DRO) Qualifier	(GC) RL RL		Unit mg/Kg	_ =	Prepared	Analyzed 10/12/23 17:10 Analyzed	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 239 sel Range Orga Result Result 449.8 239	ics (DRO) ((Qualifier nics (DRO) Qualifier U	GC) RL 49.8 (GC) RL 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 10/11/23 15:46 10/11/23 15:46	Analyzed 10/12/23 17:10 Analyzed 10/12/23 17:10 10/12/23 17:10	Dil Fac Dil Fac 1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result 239 sel Range Orga Result Result 449.8	ics (DRO) ((Qualifier nics (DRO) Qualifier U	(GC) RL 49.8 (GC) RL 49.8		Unit mg/Kg Unit mg/Kg	_ =	Prepared 10/11/23 15:46	Analyzed 10/12/23 17:10 Analyzed 10/12/23 17:10	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 239 sel Range Orga Result Result 449.8 239	ics (DRO) (Control of the property of the prop	GC) RL 49.8 (GC) RL 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 10/11/23 15:46 10/11/23 15:46	Analyzed 10/12/23 17:10 Analyzed 10/12/23 17:10 10/12/23 17:10	Dil Fac Dil Fac 1 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Organ Result 239 sel Range Orga Result <49.8 49.8	ics (DRO) ((Qualifier DRO) Qualifier U	GC) RL 49.8 (GC) RL 49.8 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 10/11/23 15:46 10/11/23 15:46 10/11/23 15:46	Analyzed 10/12/23 17:10 Analyzed 10/12/23 17:10 10/12/23 17:10 10/12/23 17:10	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	sel Range Organ Result 239 sel Range Orga Result <49.8 239 <49.8 **Recovery* 121	ics (DRO) ((Qualifier DRO) Qualifier U	GC) RL 49.8 (GC) RL 49.8 49.8 49.8 Limits		Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 10/11/23 15:46 10/11/23 15:46 10/11/23 15:46 Prepared	Analyzed 10/12/23 17:10 Analyzed 10/12/23 17:10 10/12/23 17:10 10/12/23 17:10 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	sel Range Organ Result 239 sel Range Orga Result <49.8 239 <49.8 %Recovery 121 131	ics (DRO) (Control of the property of the prop	GC) RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 10/11/23 15:46 10/11/23 15:46 10/11/23 15:46 Prepared 10/11/23 15:46	Analyzed 10/12/23 17:10 Analyzed 10/12/23 17:10 10/12/23 17:10 10/12/23 17:10 Analyzed 10/12/23 17:10	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GR0)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	sel Range Organ Result 239 sel Range Orga Result <49.8 239 <49.8 **Recovery 121 131 Chromatograp	ics (DRO) (Control of the property of the prop	GC) RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg	_ =	Prepared 10/11/23 15:46 10/11/23 15:46 10/11/23 15:46 Prepared 10/11/23 15:46	Analyzed 10/12/23 17:10 Analyzed 10/12/23 17:10 10/12/23 17:10 10/12/23 17:10 Analyzed 10/12/23 17:10	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 1

Client Sample ID: S-4 (1.5') Lab Sample ID: 880-34314-2 Date Collected: 10/10/23 00:00 **Matrix: Solid**

Date Received: 10/11/23 14:19

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 16:13	-
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 16:13	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 16:13	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 16:13	
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 16:13	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 16:13	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	86		70 - 130				10/11/23 15:04	10/12/23 16:13	-
1.4-Difluorobenzene (Surr)	70		70 - 130				10/11/23 15:04	10/12/23 16:13	

Client: Carmona Resources

SDG: Lea County, New Mexico Project/Site: Raptor West 3 State #2H

Lab Sample ID: 880-34314-2

10/15/23 17:17

Client Sample ID: S-4 (1.5') Date Received: 10/11/23 14:19

Date Collected: 10/10/23 00:00

Matrix: Solid

Job ID: 880-34314-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/12/23 16:13	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/12/23 17:32	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		10/11/23 15:46	10/12/23 17:32	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		10/11/23 15:46	10/12/23 17:32	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/11/23 15:46	10/12/23 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				10/11/23 15:46	10/12/23 17:32	1
o-Terphenyl	116		70 - 130				10/11/23 15:46	10/12/23 17:32	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hv - Solubl	•						
Metriou. LFA 300.0 - Ariforis, Ion	• .	Qualifier	e RL	MDL	Unit		Prepared		Dil Fac

Client Sample ID: S-4 (2') Lab Sample ID: 880-34314-3

5.03

mg/Kg

133

Date Collected: 10/10/23 00:00 **Matrix: Solid**

Date Received: 10/11/23 14:19

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 16:34	1
Toluene	< 0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 16:34	,
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 16:34	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 16:34	
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 16:34	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 16:34	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	88		70 - 130				10/11/23 15:04	10/12/23 16:34	
			70 400					10/10/00 10 01	
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte		culation Qualifier	70 ₋ 130 RL	MDL	Unit	D	10/11/23 15:04 Prepared	10/12/23 16:34 Analyzed	
		culation	70 - 130				10/11/23 15:04	10/12/23 16:34	
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald Result <0.00398	Qualifier U	RL 0.00398	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald Result <0.00398 esel Range Organ	Qualifier U	RL 0.00398			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Cald Result <0.00398 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00398		mg/Kg		Prepared	Analyzed 10/12/23 16:34	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Did Analyte	- Total BTEX Cald Result <0.00398 esel Range Organ Result <50.1	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 ————————————————————————————————————		mg/Kg		Prepared	Analyzed 10/12/23 16:34 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Did Analyte Total TPH	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.1 Diesel Range Orga	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 ————————————————————————————————————	MDL	mg/Kg		Prepared	Analyzed 10/12/23 16:34 Analyzed	Dil Fa
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - E	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.1 Diesel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00398 GC) RL 50.1	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 10/12/23 16:34 Analyzed 10/12/23 17:54	Dil Fa

Client: Carmona Resources Job ID: 880-34314-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Client Sample ID: S-4 (2') Lab Sample ID: 880-34314-3

Date Collected: 10/10/23 00:00 Matrix: Solid Date Received: 10/11/23 14:19

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/11/23 15:46	10/12/23 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				10/11/23 15:46	10/12/23 17:54	1
o-Terphenvl	114		70 - 130				10/11/23 15:46	10/12/23 17:54	1

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136	4 97	ma/Ka			10/15/23 17:33	

Surrogate Summary

Client: Carmona Resources

Job ID: 880-34314-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-34311-A-1-A MS	Matrix Spike	122	100	
880-34311-A-1-B MSD	Matrix Spike Duplicate	115	104	
880-34314-1	S-4 (0-1')	89	75	
880-34314-2	S-4 (1.5')	86	70	
880-34314-3	S-4 (2')	88	71	
LCS 880-64502/1-A	Lab Control Sample	128	109	
LCSD 880-64502/2-A	Lab Control Sample Dup	128	101	
MB 880-64502/5-A	Method Blank	80	91	

BFB = 4-Bromofluoropenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-34290-A-4-E MS	Matrix Spike	97	92	
880-34290-A-4-F MSD	Matrix Spike Duplicate	97	91	
880-34314-1	S-4 (0-1')	121	131 S1+	
880-34314-2	S-4 (1.5')	107	116	
880-34314-3	S-4 (2')	105	114	
LCS 880-64505/2-A	Lab Control Sample	97	103	
LCSD 880-64505/3-A	Lab Control Sample Dup	84	90	
MB 880-64505/1-A	Method Blank	96	109	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Carmona Resources Job ID: 880-34314-1 SDG: Lea County, New Mexico Project/Site: Raptor West 3 State #2H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64502/5-A

Matrix: Solid Analysis Batch: 64523 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64502

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1

MB MB

Surrogate	%Recovery Quali	fier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80	70 - 130	10/11/23 15:04	10/12/23 11:23	1
1.4-Difluorobenzene (Surr)	91	70 - 130	10/11/23 15:04	10/12/23 11:23	1

Lab Sample ID: LCS 880-64502/1-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64502

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07857		mg/Kg		79	70 - 130	
Toluene	0.100	0.07926		mg/Kg		79	70 - 130	
Ethylbenzene	0.100	0.09043		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.1946		mg/Kg		97	70 - 130	
o-Xylene	0.100	0.09961		mg/Kg		100	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	128	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: LCSD 880-64502/2-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64502

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08430		mg/Kg		84	70 - 130	7	35	
Toluene	0.100	0.07828		mg/Kg		78	70 - 130	1	35	
Ethylbenzene	0.100	0.08874		mg/Kg		89	70 - 130	2	35	
m-Xylene & p-Xylene	0.200	0.1787		mg/Kg		89	70 - 130	9	35	
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130	4	35	

LCSD LCSD

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	128	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: 880-34311-A-1-A MS

Matrix: Solid

Analysis Batch: 64523

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

Prep Batch: 64502

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.09524		mg/Kg		96	70 - 130	
Toluene	<0.00200	U	0.0996	0.09387		mg/Kg		94	70 - 130	

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Lab Sample ID: 880-34311-A-1-B MSD

QC Sample Results

Client: Carmona Resources Project/Site: Raptor West 3 State #2H Job ID: 880-34314-1

SDG: Lea County, New Mexico

Prep Type: Total/NA

Prep Batch: 64502

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

Lab Sample ID: 880-34311-A-1-A MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 64523

Matrix: Solid

Analysis Batch: 64523

Added		Qualifier	Unit	_ D	%Rec	Limits
0.0000	0.4040					
0.0996	0.1043		mg/Kg		105	70 - 130
0.199	0.2282		mg/Kg		115	70 - 130
0.0996	0.1141		mg/Kg		115	70 - 130
	0.0996			3, 3	3. 3	3. 3

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	122	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64502

RPD

Sample Sample Spike MSD MSD Result Qualifier RPD Limit Analyte Added Result Qualifier %Rec Limits Unit Benzene <0.00200 U 0.0990 0.08499 mg/Kg 86 70 - 130 11 35 Toluene <0.00200 U 0.0990 0.08138 mg/Kg 82 70 - 130 14 35 Ethylbenzene <0.00200 U 0.0990 0.08808 89 70 - 130 17 35 mg/Kg 0.198 m-Xylene & p-Xylene <0.00401 U 0.1873 mg/Kg 95 70 - 130 20 35 0.0990 <0.00200 U 0.09482 96 70 - 130 o-Xylene mg/Kg 18

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-64505/1-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 64518

Prep Type: Total/NA Prep Batch: 64505

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte 50.0 10/11/23 15:46 10/12/23 08:09 <50.0 U Gasoline Range Organics mg/Kg (GRO)-C6-C10 10/12/23 08:09 Diesel Range Organics (Over <50.0 U 50.0 10/11/23 15:46 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 10/11/23 15:46 10/12/23 08:09 mg/Kg

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepai	red	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	10/11/23	15:46	10/12/23 08:09	1
o-Terphenyl	109		70 - 130	10/11/23	15:46	10/12/23 08:09	1

Lab Sample ID: LCS 880-64505/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 64518 Prep Batch: 64505

	Бріке	LUS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	952.4		mg/Kg		95	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	912.6		mg/Kg		91	70 - 130	
C10-C28)								

Client: Carmona Resources

LCS LCS

Job ID: 880-34314-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-64505/2-A

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64505

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 97 70 - 130 o-Terphenyl 103 70 - 130

Lab Sample ID: LCSD 880-64505/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 64518

Prep Type: Total/NA

Prep Batch: 64505

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 856.3 86 70 - 13011 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 786.7 mg/Kg 79 70 - 13020 15 C10-C28)

LCSD LCSD

Sample Sample

Surrogate %Recovery Qualifier Limits 84 70 - 130 1-Chlorooctane o-Terphenyl 90 70 - 130

Lab Sample ID: 880-34290-A-4-E MS Client Sample ID: Matrix Spike

Me Me

Matrix: Solid

Analysis Batch: 64518

Prep Type: Total/NA

Prep Batch: 64505

		Sample	Sample	Spike	IVIO	IVIO				/orec	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Gasoline Range Organics	<49.9	U	994	1158		mg/Kg		113	70 - 130	
	(GRO)-C6-C10										
	Diesel Range Organics (Over	<49.9	U	994	889.8		mg/Kg		87	70 - 130	
П	C10 C20\										

Snika

C10-C28)

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

Lab Sample ID: 880-34290-A-4-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 64518

Prep Type: Total/NA

Prep Batch: 64505

	Sample	Sample	Spike	MSD	M2D				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U	994	1187		mg/Kg		116	70 - 130	2	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U	994	893.7		mg/Kg		87	70 - 130	0	20	
040,000)												

Cailes

C10-C28)

Surrogate 1-Chlorooctane

o-Terphenyl

MSD	MSD	
%Recovery	Qualifier	Limits
 97		70 - 130
91		70 - 130

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QC Sample Results

Client: Carmona Resources Job ID: 880-34314-1 Project/Site: Raptor West 3 State #2H

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SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64569/1-A

Matrix: Solid

Analysis Batch: 64695

Client Sample ID: Method Blank

Prep Type: Soluble

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 10/15/23 15:18

Lab Sample ID: LCS 880-64569/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 64695

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 274.9 mg/Kg 110 90 - 110

Lab Sample ID: LCSD 880-64569/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 64695

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 273.8 mg/Kg 110 90 - 110

Lab Sample ID: 880-34313-A-3-D MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 64695

MS MS Sample Sample Spike %Rec Analyte Qualifier Added Qualifier Result Result Unit %Rec Limits Chloride 129 249 403.0 110 90 - 110 mg/Kg

Lab Sample ID: 880-34313-A-3-E MSD

Matrix: Solid

Analysis Batch: 64695

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 249 Chloride 129 402.6 mg/Kg 110 90 - 110 20

QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1 SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34314-1	S-4 (0-1')	Total/NA	Solid	5035	
880-34314-2	S-4 (1.5')	Total/NA	Solid	5035	
880-34314-3	S-4 (2')	Total/NA	Solid	5035	
MB 880-64502/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34314-1	S-4 (0-1')	Total/NA	Solid	8021B	64502
880-34314-2	S-4 (1.5')	Total/NA	Solid	8021B	64502
880-34314-3	S-4 (2')	Total/NA	Solid	8021B	64502
MB 880-64502/5-A	Method Blank	Total/NA	Solid	8021B	64502
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	8021B	64502
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64502
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	64502
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64502

Analysis Batch: 64678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34314-1	S-4 (0-1')	Total/NA	Solid	Total BTEX	
880-34314-2	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-34314-3	S-4 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34314-1	S-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-34314-2	S-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-34314-3	S-4 (2')	Total/NA	Solid	8015NM Prep	
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34314-1	S-4 (0-1')	Total/NA	Solid	8015B NM	64505
880-34314-2	S-4 (1.5')	Total/NA	Solid	8015B NM	64505
880-34314-3	S-4 (2')	Total/NA	Solid	8015B NM	64505
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015B NM	64505
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64505
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64505
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015B NM	64505
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64505

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QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1

SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 64717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34314-1	S-4 (0-1')	Total/NA	Solid	8015 NM	
880-34314-2	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-34314-3	S-4 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34314-1	S-4 (0-1')	Soluble	Solid	DI Leach	
880-34314-2	S-4 (1.5')	Soluble	Solid	DI Leach	
880-34314-3	S-4 (2')	Soluble	Solid	DI Leach	
MB 880-64569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34313-A-3-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-34313-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 64695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34314-1	S-4 (0-1')	Soluble	Solid	300.0	64569
880-34314-2	S-4 (1.5')	Soluble	Solid	300.0	64569
880-34314-3	S-4 (2')	Soluble	Solid	300.0	64569
MB 880-64569/1-A	Method Blank	Soluble	Solid	300.0	64569
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	300.0	64569
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64569
880-34313-A-3-D MS	Matrix Spike	Soluble	Solid	300.0	64569
880-34313-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64569

Eurofins Midland

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Project/Site: Raptor West 3 State #2H

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

Lab Sample ID: 880-34314-1

Matrix: Solid

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 14:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64678	10/12/23 14:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			64717	10/12/23 17:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 17:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 17:11	CH	EET MID

Lab Sample ID: 880-34314-2

Matrix: Solid

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Client Sample ID: S-4 (1.5')

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 16:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64678	10/12/23 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			64717	10/12/23 17:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 17:32	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 17:17	CH	EET MID

Client Sample ID: S-4 (2') Lab Sample ID: 880-34314-3 Date Collected: 10/10/23 00:00

Date Received: 10/11/23 14:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 16:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64678	10/12/23 16:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			64717	10/12/23 17:54	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 17:54	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 17:33	CH	EET MID

Laboratory References:

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

Eurofins Midland

Matrix: Solid

Accreditation/Certification Summary

Client: Carmona Resources Job ID: 880-34314-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date					
Texas	NELA	NELAP T104704400-23-26 06-30-24							
• .	are included in this report, bu	it the laboratory is not certif	ied by the governing authority. This lis	t may include analytes					
Analysis Method	Prep Method	Matrix	Analyte						
8015 NM		Solid	Total TPH						
Total BTEX		Solid	Total BTEX						

Method Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1

SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1

SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34314-1	S-4 (0-1')	Solid	10/10/23 00:00	10/11/23 14:19
880-34314-2	S-4 (1.5')	Solid	10/10/23 00:00	10/11/23 14:19
880-34314-3	S-4 (2')	Solid	10/10/23 00:00	10/11/23 14:19

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Received by OCD: 12/5/2023 2:15:07 PM

10/16/2023

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880-34314 Chain of Custody

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Project Manager	Clinton Merritt		***************************************		Bill to (if	different)		Meloc	die Sar	njari					_		·		W	ork C)rder	Commen	ts	
Company Name	Carmona Res				Compan	y Name		Mara	thon O	il Corpo	ration					Prog	ram U	ST/PS	зт ∏Р	RP []]row	nfields	krc	perfund
Address	310 W Wall S	***************************************	· · · · · · · · · · · · · · · · · · ·		Address.			990 T	own a	nd Cou	ntry Blvo	1	WWW. 4444 4			State	of Pro	ject:						
City State ZIP	Midland TX 7	9701		1	City Sta	te ZIP		Hous	ton T>	77024						Repo	rting Le	evel II	Lev	/el III	□st	T/UST 🗍	RRP	Level IV
Phone	<u> </u>			Email	msanjai	rı@mara	thonoil c	om								Delive	erables	EDE			ADaP	т □	Other ⁻	
Project Name	Rapi	or West 3 Sta	te #2H						***************************************									***************************************			-	T		
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Total Containers			Corrected Tempe			ď		1	015	0												Zn Acetat		
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Sample Ide	ntification	Date	Time	Soil	Water	Comp	# of Cont		F											1		Sar	nple C	omments
S-4 (0)-1')	10/10/2023		Х	1	G	1	X	Х	X			-	\vdash						╂	┼─	 		
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Comments Emai	i results to Mili	e Carmona n	icarmona@car	monaresourc	es com, (Conner	Moehrır	ıg cm	oehri	ng@ca	armona	treso	urces	com,	Clin	t Meri	ntt Me	rrittC	@ca	rmon	aresc	urces.co	m	
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-	60"							14	19															

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34314-1

SDG Number: Lea County, New Mexico

List Source: Eurofins Midland

Login Number: 34314
List Number: 1

Creator: Rodriguez, Leticia

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/16/2023 2:53:54 PM

JOB DESCRIPTION

Raptor West 3 State #2H SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34316-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

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

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Client: Carmona Resources Project/Site: Raptor West 3 State #2H Laboratory Job ID: 880-34316-1 SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources Job ID: 880-34316-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

DLC

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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)
DI RA RE IN	Indicates a Dilution Re-analysis Re-extraction or additional Initial metals/anion analysis of the sample

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

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

Decision Level Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL NC Not Calculated

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

NEG Negative / Absent POS Positive / Present **PQL**

Practical Quantitation Limit PRES Presumptive

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1

SDG: Lea County, New Mexico

Job ID: 880-34316-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-34316-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 10/11/2023 2:19 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 -7.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-5 (0-1') (880-34316-1), S-5 (1.5') (880-34316-2) and S-5 (2') (880-34316-3).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-5 (0-1') (880-34316-1), S-5 (2') (880-34316-3) and (880-34311-A-1-C). 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.

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-64532 and analytical batch 880-64515 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-64515/5) and (LCS 880-64532/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (880-34316-A-1-C MS) and (880-34316-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-64515 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) due to being inadvertently double spiked. Percent recoveries are based on the amount spiked. The associated sample is impacted: (CCV 880-64515/20).

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: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-34316-1

Client Sample ID: S-5 (0-1') Date Collected: 10/10/23 00:00

Date Received: 10/11/23 14:19

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 17:56	
Toluene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 17:56	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 17:56	
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/11/23 15:04	10/12/23 17:56	
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 17:56	
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/11/23 15:04	10/12/23 17:56	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	86		70 - 130				10/11/23 15:04	10/12/23 17:56	
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130				10/11/23 15:04	10/12/23 17:56	
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/12/23 17:56	
			•	MDI	11=:4	Б	Duanawad	Analysis	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH		ics (DRO) (GC) RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/12/23 10:56	
Analyte Total TPH	Result 60.5	Qualifier	RL 49.9	MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die	Result 60.5	Qualifier nics (DRO)	RL 49.9 (GC)		mg/Kg			10/12/23 10:56	
Analyte Total TPH Method: SW846 8015B NM - Die Analyte	Result 60.5 sel Range Orga Result	Qualifier nics (DRO) Qualifier	(GC)		mg/Kg	<u>D</u>	Prepared	10/12/23 10:56 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result 60.5	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)		mg/Kg			10/12/23 10:56	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10	Result 60.5 sel Range Orga Result	Qualifier nics (DRO) Qualifier	(GC)		mg/Kg		Prepared	10/12/23 10:56 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 60.5 sel Range Orga Result Result 49.9	Qualifier nics (DRO) Qualifier	(GC) RL 49.9		mg/Kg Unit mg/Kg		Prepared 10/12/23 10:42	10/12/23 10:56 Analyzed 10/12/23 10:56	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 60.5 sel Range Orga Result Result 49.9	Qualifier nics (DRO) Qualifier U	(GC) RL 49.9		mg/Kg Unit mg/Kg		Prepared 10/12/23 10:42	10/12/23 10:56 Analyzed 10/12/23 10:56	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 60.5 sel Range Orga Result <49.9 60.5	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 10/12/23 10:42 10/12/23 10:42	10/12/23 10:56 Analyzed 10/12/23 10:56 10/12/23 10:56	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 60.5 sel Range Orga Result < 49.9 60.5 49.9	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 10/12/23 10:42 10/12/23 10:42 10/12/23 10:42	10/12/23 10:56 Analyzed 10/12/23 10:56 10/12/23 10:56 10/12/23 10:56	Dil Fa
Analyte	Result 60.5	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 10/12/23 10:42 10/12/23 10:42 10/12/23 10:42 Prepared	10/12/23 10:56 Analyzed 10/12/23 10:56 10/12/23 10:56 10/12/23 10:56 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 60.5	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 10/12/23 10:42 10/12/23 10:42 10/12/23 10:42 Prepared 10/12/23 10:42	10/12/23 10:56 Analyzed 10/12/23 10:56 10/12/23 10:56 10/12/23 10:56 Analyzed 10/12/23 10:56	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 60.5	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 10/12/23 10:42 10/12/23 10:42 10/12/23 10:42 Prepared 10/12/23 10:42	10/12/23 10:56 Analyzed 10/12/23 10:56 10/12/23 10:56 10/12/23 10:56 Analyzed 10/12/23 10:56	Dil Fa

Client Sample ID: S-5 (1.5') Lab Sample ID: 880-34316-2 Date Collected: 10/10/23 00:00 **Matrix: Solid**

Date Received: 10/11/23 14:19

Method: SW846 8021B - Volati	ie Organic Comp	ounas (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 18:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 18:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 18:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 18:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 18:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87	·	70 - 130				10/11/23 15:04	10/12/23 18:16	1
1,4-Difluorobenzene (Surr)	71		70 - 130				10/11/23 15:04	10/12/23 18:16	1

Eurofins Midland

10/16/2023

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1

SDG: Lea County, New Mexico

10/15/23 18:02

Lab Sample ID: 880-34316-2

Matrix: Solid

Client Sample ID: S-5 (1.5')

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/12/23 18:16	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			10/12/23 12:02	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.3	U	50.3		mg/Kg		10/12/23 10:42	10/12/23 12:02	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.3	U	50.3		mg/Kg		10/12/23 10:42	10/12/23 12:02	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/12/23 10:42	10/12/23 12:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				10/12/23 10:42	10/12/23 12:02	1
o-Terphenyl	121		70 - 130				10/12/23 10:42	10/12/23 12:02	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solubl	•						
WELLIOU. EFA 300.0 - ALLIONS, ION	• .	Qualifier	e RL	MDL		D	Prepared		Dil Fac

Client Sample ID: S-5 (2') Lab Sample ID: 880-34316-3 Date Collected: 10/10/23 00:00 **Matrix: Solid**

4.97

mg/Kg

131

Date Received: 10/11/23 14:19

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 18:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 18:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 18:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/11/23 15:04	10/12/23 18:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 18:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/11/23 15:04	10/12/23 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				10/11/23 15:04	10/12/23 18:37	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX		S1-	70 - 130				10/11/23 15:04	10/12/23 18:37	1
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	culation Qualifier	RL	MDL	Unit ma/Ka	<u>D</u>	10/11/23 15:04 Prepared	Analyzed	Dil Fac
·	- Total BTEX Cald Result <0.00399	Qualifier	RL 0.00399	MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald Result <0.00399 sel Range Organ	Qualifier	RL 0.00399			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Cald Result <0.00399 sel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00399		mg/Kg		Prepared	Analyzed 10/12/23 18:37	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00399 sel Range Organ Result <50.5	Qualifier U ics (DRO) (Qualifier U	RL 0.00399 GC) RL 50.5		mg/Kg		Prepared	Analyzed 10/12/23 18:37 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Cald Result <0.00399 sel Range Organ Result <50.5 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U	RL 0.00399 GC) RL 50.5	MDL	mg/Kg		Prepared	Analyzed 10/12/23 18:37 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - Die	- Total BTEX Cald Result <0.00399 sel Range Organ Result <50.5 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U	RL 0.00399 GC) RL 50.5	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 10/12/23 18:37 Analyzed 10/12/23 12:24	Dil Fac

Client Sample Results

Client: Carmona Resources Job ID: 880-34316-1 Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Lab Sample ID: 880-34316-3

Matrix: Solid

Client Sample ID: S-5 (2') Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/12/23 10:42	10/12/23 12:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				10/12/23 10:42	10/12/23 12:24	1
o-Terphenyl	122		70 - 130				10/12/23 10:42	10/12/23 12:24	1

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126	5.04	mg/Kg			10/15/23 18:07	1

Surrogate Summary

Client: Carmona Resources Job ID: 880-34316-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-34311-A-1-A MS	Matrix Spike	122	100	
880-34311-A-1-B MSD	Matrix Spike Duplicate	115	104	
880-34316-1	S-5 (0-1')	86	68 S1-	
880-34316-2	S-5 (1.5')	87	71	
880-34316-3	S-5 (2')	88	58 S1-	
LCS 880-64502/1-A	Lab Control Sample	128	109	
LCSD 880-64502/2-A	Lab Control Sample Dup	128	101	
MB 880-64502/5-A	Method Blank	80	91	

DFBZ = 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance L
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-34316-1	S-5 (0-1')	112	104	
880-34316-1 MS	S-5 (0-1')	137 S1+	115	
880-34316-1 MSD	S-5 (0-1')	132 S1+	111	
880-34316-2	S-5 (1.5')	127	121	
880-34316-3	S-5 (2')	129	122	
LCS 880-64532/2-A	Lab Control Sample	117	136 S1+	
LCSD 880-64532/3-A	Lab Control Sample Dup	82	88	
MB 880-64532/1-A	Method Blank	196 S1+	182 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1

SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64502/5-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64502

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80	70 - 130	10/11/23 15:04	10/12/23 11:23	1
1,4-Difluorobenzene (Surr)	91	70 - 130	10/11/23 15:04	10/12/23 11:23	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64502

Matrix: Solid

Analysis Batch: 64523

Lab Sample ID: LCS 880-64502/1-A

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07857		mg/Kg		79	70 - 130	
Toluene	0.100	0.07926		mg/Kg		79	70 - 130	
Ethylbenzene	0.100	0.09043		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.1946		mg/Kg		97	70 - 130	
o-Xylene	0.100	0.09961		mg/Kg		100	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	128	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: LCSD 880-64502/2-A

Matrix: Solid

Analysis Batch: 64523

Prep Type: Total/NA

Prep Batch: 64502

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08430		mg/Kg		84	70 - 130	7	35
Toluene	0.100	0.07828		mg/Kg		78	70 - 130	1	35
Ethylbenzene	0.100	0.08874		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1787		mg/Kg		89	70 - 130	9	35
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	128	70 - 130
1.4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: 880-34311-A-1-A MS

Released to Imaging: 12/11/2023 1:08:13 PM

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Matrix Spike)
Prep Type: Total/NA	1

Prep Batch: 64502

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.09524		mg/Kg		96	70 - 130	
Toluene	<0.00200	U	0.0996	0.09387		mg/Kg		94	70 - 130	

QC Sample Results

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1

SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34311-A-1-A MS

Lab Sample ID: 880-34311-A-1-B MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64502

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0996	0.1043		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2282		mg/Kg		115	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.1141		mg/Kg		115	70 - 130	

MS MS

Surrogate	%Recovery 0	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	122		70 - 130		
1,4-Difluorobenzene (Surr)	100		70 - 130		

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64502

RPD

Analysis Batch: 64523 Sample Sample Spike MSD MSD Result Qualifier Result Qualifier RPD Limit Analyte Added Unit %Rec Limits 0.0990 Benzene <0.00200 U 0.08499 mg/Kg 86 70 - 130 11 35 Toluene <0.00200 U 0.0990 0.08138 mg/Kg 82 70 - 130 14 35 Ethylbenzene <0.00200 U 0.0990 0.08808 mg/Kg 89 70 - 130 17 35 0.198 0.1873 95 70 - 130 35 m-Xylene & p-Xylene <0.00401 U mg/Kg 20 0.0990 <0.00200 U 0.09482 96 70 - 130 o-Xylene mg/Kg 18

MSD MSD

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	115	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

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

Lab Sample ID: MB 880-64532/1-A

Matrix: Solid

Analysis Batch: 64515

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64532

	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		10/12/23 08:00	10/12/23 08:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/12/23 08:00	10/12/23 08:09	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/12/23 08:00	10/12/23 08:09	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	196	S1+	70 - 130	10/12/23 08:00	10/12/23 08:09	1
o-Terphenyl	182	S1+	70 - 130	10/12/23 08:00	10/12/23 08:09	1

Lab Sample ID: LCS 880-64532/2-A

Matrix: Solid

Analysis Batch: 64515

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

Prep Batch: 64532

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	843.0		mg/Kg		84	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	878.5		mg/Kg		88	70 - 130	
C10-C28)								

Limits

Client: Carmona Resources Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1

SDG: Lea County, New Mexico

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

LCS LCS

Lab Sample ID: LCS 880-64532/2-A

Matrix: Solid

Analysis Batch: 64515

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64532

Surrogate %Recovery Qualifier

1-Chlorooctane 117 70 - 130 o-Terphenyl 136 S1+ 70 - 130

Client Sample ID: Lab Control Sample Dup

70 - 130

Prep Type: Total/NA

Prep Batch: 64532

13

Lab Sample ID: LCSD 880-64532/3-A **Matrix: Solid**

Analysis Batch: 64515

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 798.2 80 70 - 1305 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 mg/Kg Diesel Range Organics (Over 1000 772.7 77

C10-C28)

LCSD LCSD

Sample Sample

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	82	70 - 130
o-Terphenyl	88	70 - 130

Lab Sample ID: 880-34316-1 MS Client Sample ID: S-5 (0-1')

Matrix: Solid

Analysis Batch: 64515

Prep Type: Total/NA Prep Batch: 64532 MS MS

Analyte Result Qualifier hahhA Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 991 946.5 mg/Kg 94 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 60.5 991 1320 mg/Kg 127 70 - 130 C10-C28)

Spike

MS MS

Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	137	S1+	70 - 130		
o-Terphenyl	115		70 - 130		

Lab Sample ID: 880-34316-1 MSD Client Sample ID: S-5 (0-1')

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 64515 Prep Batch: 64532 Sample Sample Spike MSD MSD %Rec RPD

Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics <49.9 U 991 919.0 91 20 mg/Kg 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 60.5 991 1278 mg/Kg 123 70 - 130 3 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	111		70 - 130

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QC Sample Results

Client: Carmona Resources Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1 SDG: Lea County, New Mexico

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64569/1-A

Matrix: Solid

Analysis Batch: 64695

мв мв

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 10/15/23 15:18

Lab Sample ID: LCS 880-64569/2-A

Matrix: Solid

Analysis Batch: 64695

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 274.9 mg/Kg 110 90 - 110

Lab Sample ID: LCSD 880-64569/3-A

Matrix: Solid

Analysis Batch: 64695

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 273.8 mg/Kg 110 90 - 110

Lab Sample ID: 880-34313-A-3-D MS

Matrix: Solid

Analysis Batch: 64695

MS MS Sample Sample Spike %Rec Analyte Qualifier Added Qualifier Result Result Unit %Rec Limits Chloride 129 249 403.0 110 90 - 110 mg/Kg

Lab Sample ID: 880-34313-A-3-E MSD

Matrix: Solid

Analysis Batch: 64695

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 249 Chloride 129 402.6 mg/Kg 110 90 - 110 20

QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1 SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34316-1	S-5 (0-1')	Total/NA	Solid	5035	
880-34316-2	S-5 (1.5')	Total/NA	Solid	5035	
880-34316-3	S-5 (2')	Total/NA	Solid	5035	
MB 880-64502/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34316-1	S-5 (0-1')	Total/NA	Solid	8021B	64502
880-34316-2	S-5 (1.5')	Total/NA	Solid	8021B	64502
880-34316-3	S-5 (2')	Total/NA	Solid	8021B	64502
MB 880-64502/5-A	Method Blank	Total/NA	Solid	8021B	64502
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	8021B	64502
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64502
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	64502
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64502

Analysis Batch: 64680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34316-1	S-5 (0-1')	Total/NA	Solid	Total BTEX	
880-34316-2	S-5 (1.5')	Total/NA	Solid	Total BTEX	
880-34316-3	S-5 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 64515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34316-1	S-5 (0-1')	Total/NA	Solid	8015B NM	64532
880-34316-2	S-5 (1.5')	Total/NA	Solid	8015B NM	64532
880-34316-3	S-5 (2')	Total/NA	Solid	8015B NM	64532
MB 880-64532/1-A	Method Blank	Total/NA	Solid	8015B NM	64532
LCS 880-64532/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64532
LCSD 880-64532/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64532
880-34316-1 MS	S-5 (0-1')	Total/NA	Solid	8015B NM	64532
880-34316-1 MSD	S-5 (0-1')	Total/NA	Solid	8015B NM	64532

Prep Batch: 64532

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34316-1	S-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-34316-2	S-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-34316-3	S-5 (2')	Total/NA	Solid	8015NM Prep	
MB 880-64532/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64532/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64532/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34316-1 MS	S-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-34316-1 MSD	S-5 (0-1')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

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QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1 SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 64656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34316-1	S-5 (0-1')	Total/NA	Solid	8015 NM	
880-34316-2	S-5 (1.5')	Total/NA	Solid	8015 NM	
880-34316-3	S-5 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34316-1	S-5 (0-1')	Soluble	Solid	DI Leach	
880-34316-2	S-5 (1.5')	Soluble	Solid	DI Leach	
880-34316-3	S-5 (2')	Soluble	Solid	DI Leach	
MB 880-64569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34313-A-3-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-34313-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 64695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34316-1	S-5 (0-1')	Soluble	Solid	300.0	64569
880-34316-2	S-5 (1.5')	Soluble	Solid	300.0	64569
880-34316-3	S-5 (2')	Soluble	Solid	300.0	64569
MB 880-64569/1-A	Method Blank	Soluble	Solid	300.0	64569
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	300.0	64569
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64569
880-34313-A-3-D MS	Matrix Spike	Soluble	Solid	300.0	64569
880-34313-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64569

Eurofins Midland

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SDG: Lea County, New Mexico

Lab Sample ID: 880-34316-1

Client Sample ID: S-5 (0-1') Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 17:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64680	10/12/23 17:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			64656	10/12/23 10:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 10:56	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 17:56	CH	EET MID

Lab Sample ID: 880-34316-2

Matrix: Solid

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Client Sample ID: S-5 (1.5')

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 5.03 g Total/NA 5 mL 64502 10/11/23 15:04 MNR EET MID Total/NA 8021B 5 mL **EET MID** Analysis 1 5 mL 64523 10/12/23 18:16 MNR Total/NA Total BTEX 64680 10/12/23 18:16 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 64656 10/12/23 12:02 SM **EET MID** Total/NA 8015NM Prep 64532 10/12/23 10:42 Prep 9.94 g 10 mL TKC EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 64515 10/12/23 12:02 SM **EET MID** Soluble 10/12/23 14:15 Leach DI Leach 5.03 g 50 mL 64569 AG **EET MID** Soluble Analysis 300.0 50 mL 50 mL 64695 10/15/23 18:02 СН **EET MID**

Client Sample ID: S-5 (2')

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Lab Sample ID: 880-34316-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 18:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64680	10/12/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			64656	10/12/23 12:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 12:24	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 18:07	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-34316-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Progr	am	Identification Number	Expiration Date	
exas NELAP		Р	T104704400-23-26	06-30-24	
• .	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		

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Method Summary

Client: Carmona Resources

Job ID: 880-34316-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1

SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received		
880-34316-1	S-5 (0-1')	Solid	10/10/23 00:00	10/11/23 14:19		
880-34316-2	S-5 (1.5')	Solid	10/10/23 00:00	10/11/23 14:19		
880-34316-3	S-5 (2')	Solid	10/10/23 00:00	10/11/23 14:19		

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Received by OCD: 12/5/2023 2:15:07 PM

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880-34316 Chain of Custody

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Project Manager						Bill to (if different) M				Melodie Sanjari						Work Order Comments							
Company Name	Carmona Resources Company				ompany Name Marathon Oil Corporation			ation Program US					n UST/PST PRP rownfields RC perfund					perfund					
Address	310 W Wall St Ste 500				Address	Address			990 Town and Country Blvd					1 1	State of Project:								
City, State ZIP	Midland TX 79701 City, State 2										7	Reporting Level II Level III ST/UST RRP Level IV											
Phone				Email	msanjai	rı@mara	thonoil c	<u>om</u>						*		Deliverables. EDD ADaPT Other							
Project Name	Raptor West 3 State #2H				Around	ANALYSIS REQ							REQU	EST	-				Preservative Codes				
Project Number		2154		✓ Routine	Rush				Π	T T												None NO	DI Water H ₂ O
Project Location	Lea (County New N	Лехісо	Due Date	5 day												· · · · · · · · · · · · · · · · · · ·	<u> </u>				1	- 1
Sampler's Name		CCM			1				l ĝ													Cool Cool HCL HC	MeOH Me HNO ₃ HN
PO #:			\sim	-	~~		S		Σ +													H ₂ SO ₄ . H ₂	NaOH Na
SAMPLE RECE	IPT Ten	ap Blank	Yes (No	Wet Ice	Yes	No	Parameters	8	TPH 8015M (GRO + DRO + MRO)	300 0					I							H ₃ PO ₄ HP	
Received Intact:	(Ye	s) No	Thermometer ID		J	48	l E	BTEX 8021B	1 + 0	300												NaHSO4 NABI	
Cooler Custody Seal	ls Yes	No (NX)	Correction Facto	or	+	20	Pa P	Ě	GRC	Chloride												Na ₂ S ₂ O ₃ NaSC	i i
Sample Custody Sea	als. Yes	No (N/A)	Temperature Re	ading		9	1	18 18	≥ 2	5												Zn Acetate+Na	
Total Containers	s Corrected Tem			erature	-	4]		801													NaOH+Ascorbi	1
Sample Identification Date Time			Soil	Water	Grab/ Comp	# of Cont		TPH													Sample	Comments	
S-5 (0	0-1')	10/10/2023		X		G	1	Х	X	X									1				
S-5 (<i>'</i>	1 5')	10/10/2023		X		G	1	X	X	X				\vdash				-	ļ		 		
S-5 ((2')	10/10/2023		X		G	1	X	X	X								 	 	<u> </u>	\vdash		
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	Relinquished by (Signature)					T	Date/	Time		T T		***********											
7		Ciniquioneu I	// (Oignature)	**************************************			11/1	Date/							Received by: (Signature)								Date/Time
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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34316-1

SDG Number: Lea County, New Mexico

List Source: Eurofins Midland

Login Number: 34316 List Number: 1

Creator: Rodriguez, Leticia

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/16/2023 2:53:01 PM

JOB DESCRIPTION

Raptor West 3 State #2H SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34315-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 10/16/2023 2:53:01 PM

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

Client: Carmona Resources Project/Site: Raptor West 3 State #2H Laboratory Job ID: 880-34315-1 SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources Job ID: 880-34315-1 Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Description Qualifier

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

Decision Level Concentration (Radiochemistry) DLC

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 Method Quantitation Limit MQL

Not Calculated NC

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit **PRES** Presumptive

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

TFF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: Carmona Resources

Job ID: 880-34315-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Job ID: 880-34315-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-34315-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 10/11/2023 2:19 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 -7.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-6 (0-1') (880-34315-1), S-6 (1.5') (880-34315-2) and S-6 (2') (880-34315-3).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-34311-A-1-C). 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.

GC Semi VOA

Method 8015MOD NM: The continuing calibration verification (CCV) associated with batch 880-64518 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-64518/47).

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: Raptor West 3 State #2H

Job ID: 880-34315-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-34315-1

10/11/23 15:46

Prepared

D

10/12/23 18:16

Analyzed

Dil Fac

Matrix: Solid

Matrix: Solid

C	lient	Sampl	le ID:	S-6 (0-1')
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Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Amaluta									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 16:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 16:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 16:54	1
m-Xylene & p-Xylene	< 0.00399	U	0.00399		mg/Kg		10/11/23 15:04	10/12/23 16:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 16:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/11/23 15:04	10/12/23 16:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				10/11/23 15:04	10/12/23 16:54	1
1,4-Difluorobenzene (Surr)	71		70 - 130				10/11/23 15:04	10/12/23 16:54	1
Method: SW846 8015 NM - Diesel	•	. , ,	GC)						
Method: SW846 8015 NM - Diesel Analyte	•	ics (DRO) (Qualifier	GC)	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
	•	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/12/23 18:16	
Analyte	Result <50.1	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.1	Qualifier U				<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Diese	Result <50.1	Qualifier Unics (DRO) Qualifier	RL 50.1		mg/Kg			10/12/23 18:16	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	Result <50.1 I Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 50.1 (GC)		mg/Kg		Prepared	10/12/23 18:16 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Result <50.1 I Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 50.1 (GC)		mg/Kg		Prepared	10/12/23 18:16 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.1 Range Orga Result <50.1 <50.1	Qualifier U nics (DRO) Qualifier U	RL 50.1 (GC) RL 50.1 50.1		mg/Kg Unit mg/Kg mg/Kg		Prepared 10/11/23 15:46 10/11/23 15:46	10/12/23 18:16 Analyzed 10/12/23 18:16 10/12/23 18:16	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.1 Range Orga Result <50.1	Qualifier U nics (DRO) Qualifier U	RL 50.1		mg/Kg Unit mg/Kg		Prepared 10/11/23 15:46	10/12/23 18:16 Analyzed 10/12/23 18:16	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.1 Range Orga Result <50.1 <50.1	Qualifier U nics (DRO) Qualifier U U	RL 50.1 (GC) RL 50.1 50.1		mg/Kg Unit mg/Kg mg/Kg		Prepared 10/11/23 15:46 10/11/23 15:46	10/12/23 18:16 Analyzed 10/12/23 18:16 10/12/23 18:16	Dil Fac

5.00 Chloride 275 mg/Kg 10/15/23 17:39 Client Sample ID: S-6 (1.5') Lab Sample ID: 880-34315-2

RL

MDL Unit

70 - 130

119

Result Qualifier

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

o-Terphenyl

Analyte

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:04	10/12/23 17:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:04	10/12/23 17:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:04	10/12/23 17:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/11/23 15:04	10/12/23 17:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:04	10/12/23 17:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/11/23 15:04	10/12/23 17:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				10/11/23 15:04	10/12/23 17:15	1
1,4-Difluorobenzene (Surr)	76		70 - 130				10/11/23 15:04	10/12/23 17:15	1

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1

SDG: Lea County, New Mexico

Client Sample ID: S-6 (1.5')

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Lab Sample ID: 880-34315-2

Matrix: Solid

Dil Fac

Analyzed

10/15/23 17:45

Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/12/23 17:15	1
- Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			10/12/23 18:38	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U	50.1		mg/Kg		10/11/23 15:46	10/12/23 18:38	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.1	U	50.1		mg/Kg		10/11/23 15:46	10/12/23 18:38	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/11/23 15:46	10/12/23 18:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				10/11/23 15:46	10/12/23 18:38	1
o-Terphenyl	100		70 - 130				10/11/23 15:46	10/12/23 18:38	

5.01 Client Sample ID: S-6 (2') Lab Sample ID: 880-34315-3 Date Collected: 10/10/23 00:00 **Matrix: Solid**

RL

MDL Unit

mg/Kg

D

Prepared

Date Received: 10/11/23 14:19

Analyte

Chloride

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

124

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 17:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 17:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 17:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/11/23 15:04	10/12/23 17:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 17:35	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/11/23 15:04	10/12/23 17:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				10/11/23 15:04	10/12/23 17:35	1
	82		70 - 130				10/11/23 15:04	10/12/23 17:35	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation Qualifier	70 - 130 RL	MDL	Unit	D	Prepared	Analyzed	
	- Total BTEX Cald			MDL	Unit	D			
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00404 esel Range Organ	Qualifier U	RL 0.00404		mg/Kg		Prepared	Analyzed 10/12/23 17:35	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00404 esel Range Organ Result	Qualifier U ics (DRO) (RL 0.00404			<u>D</u>		Analyzed 10/12/23 17:35 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00404 esel Range Organ	Qualifier U ics (DRO) (RL 0.00404		mg/Kg		Prepared	Analyzed 10/12/23 17:35	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00404 esel Range Organ Result <50.0	Qualifier U ics (DRO) (Qualifier U	RL 0.00404 GC) RL 50.0		mg/Kg		Prepared	Analyzed 10/12/23 17:35 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00404 esel Range Organ Result <50.0	Qualifier U ics (DRO) (Qualifier U	RL 0.00404 GC) RL 50.0	MDL	mg/Kg		Prepared	Analyzed 10/12/23 17:35 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00404 esel Range Organ Result <50.0	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00404 GC) RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 10/12/23 17:35 Analyzed 10/12/23 19:01	Dil Fac

Client Sample Results

Client: Carmona Resources

Job ID: 880-34315-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Client Sample ID: S-6 (2')

Lab Sample ID: 880-34315-3

Matrix: Solid

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC) (Continue	ed)				
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/K	g	10/11/23 15:46	10/12/23 19:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			10/11/23 15:46	10/12/23 19:01	1
o-Terphenyl	120		70 - 130			10/11/23 15:46	10/12/23 19:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	147		5.02		mg/Kg			10/15/23 17:50	1

6

a

10

12

13

Surrogate Summary

Client: Carmona Resources

Job ID: 880-34315-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-34311-A-1-A MS	Matrix Spike	122	100	
880-34311-A-1-B MSD	Matrix Spike Duplicate	115	104	
880-34315-1	S-6 (0-1')	90	71	
880-34315-2	S-6 (1.5')	86	76	
880-34315-3	S-6 (2')	88	82	
LCS 880-64502/1-A	Lab Control Sample	128	109	
LCSD 880-64502/2-A	Lab Control Sample Dup	128	101	
MB 880-64502/5-A	Method Blank	80	91	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-34290-A-4-E MS	Matrix Spike	97	92
880-34290-A-4-F MSD	Matrix Spike Duplicate	97	91
880-34315-1	S-6 (0-1')	112	119
880-34315-2	S-6 (1.5')	92	100
880-34315-3	S-6 (2')	110	120
LCS 880-64505/2-A	Lab Control Sample	97	103
LCSD 880-64505/3-A	Lab Control Sample Dup	84	90
MB 880-64505/1-A	Method Blank	96	109

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1 SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64502/5-A

Lab Sample ID: LCS 880-64502/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 64523

Analysis Batch: 64523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64502

1

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	•
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	•

MB MB

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80	70 - 130	10/11/23 15:04	10/12/23 11:23	1
1,4-Difluorobenzene (Surr)	91	70 - 130	10/11/23 15:04	10/12/23 11:23	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64502

Prep Type: Total/NA

Prep Batch: 64502

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07857 mg/Kg 79 70 - 130 Toluene 0.100 0.07926 mg/Kg 79 70 - 130 0.100 0.09043 Ethylbenzene mg/Kg 90 70 - 130 0.200 0.1946 97 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09961 70 - 130 o-Xylene mg/Kg 100

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	128	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: LCSD 880-64502/2-A **Client Sample ID: Lab Control Sample Dup**

Analysis Batch: 64523

Matrix: Solid

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08430		mg/Kg		84	70 - 130	7	35	
Toluene	0.100	0.07828		mg/Kg		78	70 - 130	1	35	
Ethylbenzene	0.100	0.08874		mg/Kg		89	70 - 130	2	35	
m-Xylene & p-Xylene	0.200	0.1787		mg/Kg		89	70 - 130	9	35	
o-Xvlene	0.100	0 1040		ma/Ka		104	70 130	4	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1.4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-34311-A-1-A MS

Matrix: Solid

Analysis Batch: 64523

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

Prep Batch: 64502

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.09524		mg/Kg		96	70 - 130	
Toluene	<0.00200	U	0.0996	0.09387		mg/Kg		94	70 - 130	

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QC Sample Results

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1

SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34311-A-1-A MS

Lab Sample ID: 880-34311-A-1-B MSD

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64502

Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
<0.00200	U	0.0996	0.1043		mg/Kg		105	70 - 130
<0.00401	U	0.199	0.2282		mg/Kg		115	70 - 130
< 0.00200	U	0.0996	0.1141		mg/Kg		115	70 - 130
	<0.00200	<0.00200 U <0.00401 U	<0.00200 U 0.0996 <0.00401 U 0.199	<0.00200	<0.00200 U 0.0996 0.1043 <0.00401 U 0.199 0.2282	<0.00200 U 0.0996 0.1043 mg/Kg <0.00401 U 0.199 0.2282 mg/Kg	<0.00200 U 0.0996 0.1043 mg/Kg <0.00401 U 0.199 0.2282 mg/Kg	<0.00200

MS MS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64502

Matrix: Solid Analysis Batch: 64523

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.08499		mg/Kg		86	70 - 130	11	35
Toluene	<0.00200	U	0.0990	0.08138		mg/Kg		82	70 - 130	14	35
Ethylbenzene	<0.00200	U	0.0990	0.08808		mg/Kg		89	70 - 130	17	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1873		mg/Kg		95	70 - 130	20	35
o-Xylene	<0.00200	U	0.0990	0.09482		mg/Kg		96	70 - 130	18	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-64505/1-A

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64505

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	10/11/23 15:46	10/12/23 08:09	1
o-Terphenyl	109		70 - 130	10/11/23 15:46	10/12/23 08:09	1

Lab Sample ID: LCS 880-64505/2-A

Matrix: Solid

Analysis Batch: 64518

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

Prep Batch: 64505

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	952.4		mg/Kg		95	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	912.6		mg/Kg		91	70 - 130	
C10-C28)								

Client: Carmona Resources Project/Site: Raptor West 3 State #2H Job ID: 880-34315-1

SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-64505/2-A

Lab Sample ID: LCSD 880-64505/3-A

Lab Sample ID: 880-34290-A-4-E MS

Matrix: Solid

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64505

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 97 70 - 130 o-Terphenyl 103 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64505

Analysis Batch: 64518 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 856.3 86 70 - 13011 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 786.7 79 mg/Kg 70 - 13020 15

C10-C28)

Matrix: Solid

Analysis Batch: 64518

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 84 90 70 - 130 o-Terphenyl

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64505

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 994 1158 mg/Kg 113 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 994 889.8 mg/Kg 87 70 - 130

C10-C28)

MS MS

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

Lab Sample ID: 880-34290-A-4-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 64518

Prep Type: Total/NA

Prep Batch: 64505

RPD %Rec

Sample Sample MSD MSD Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U Gasoline Range Organics <49.9 994 1187 116 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 994 893.7 mg/Kg 87 70 - 130 20

C10-C28)

MSD MSD

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

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Released to Imaging: 12/11/2023 1:08:13 PM

QC Sample Results

Client: Carmona Resources Job ID: 880-34315-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64569/1-A

Matrix: Solid

Analysis Batch: 64695

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

MB MB MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 10/15/23 15:18

Lab Sample ID: LCS 880-64569/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 64695

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 274.9 mg/Kg 110 90 - 110

Lab Sample ID: LCSD 880-64569/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 64695

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 273.8 mg/Kg 110 90 - 110

Lab Sample ID: 880-34313-A-3-D MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 64695

MS MS Sample Sample Spike %Rec Analyte Qualifier Added Qualifier Result Result Unit %Rec Limits Chloride 129 249 403.0 110 90 - 110 mg/Kg

Lab Sample ID: 880-34313-A-3-E MSD

Matrix: Solid

Analysis Batch: 64695

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 249 Chloride 129 402.6 mg/Kg 110 90 - 110 20

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Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1 SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34315-1	S-6 (0-1')	Total/NA	Solid	5035	
880-34315-2	S-6 (1.5')	Total/NA	Solid	5035	
880-34315-3	S-6 (2')	Total/NA	Solid	5035	
MB 880-64502/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34315-1	S-6 (0-1')	Total/NA	Solid	8021B	64502
880-34315-2	S-6 (1.5')	Total/NA	Solid	8021B	64502
880-34315-3	S-6 (2')	Total/NA	Solid	8021B	64502
MB 880-64502/5-A	Method Blank	Total/NA	Solid	8021B	64502
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	8021B	64502
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64502
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	64502
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64502

Analysis Batch: 64679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34315-1	S-6 (0-1')	Total/NA	Solid	Total BTEX	
880-34315-2	S-6 (1.5')	Total/NA	Solid	Total BTEX	
880-34315-3	S-6 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34315-1	S-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-34315-2	S-6 (1.5')	Total/NA	Solid	8015NM Prep	
880-34315-3	S-6 (2')	Total/NA	Solid	8015NM Prep	
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34315-1	S-6 (0-1')	Total/NA	Solid	8015B NM	64505
880-34315-2	S-6 (1.5')	Total/NA	Solid	8015B NM	64505
880-34315-3	S-6 (2')	Total/NA	Solid	8015B NM	64505
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015B NM	64505
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64505
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64505
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015B NM	64505
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64505

QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1 SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 64718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34315-1	S-6 (0-1')	Total/NA	Solid	8015 NM	
880-34315-2	S-6 (1.5')	Total/NA	Solid	8015 NM	
880-34315-3	S-6 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34315-1	S-6 (0-1')	Soluble	Solid	DI Leach	
880-34315-2	S-6 (1.5')	Soluble	Solid	DI Leach	
880-34315-3	S-6 (2')	Soluble	Solid	DI Leach	
MB 880-64569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34313-A-3-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-34313-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 64695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34315-1	S-6 (0-1')	Soluble	Solid	300.0	64569
880-34315-2	S-6 (1.5')	Soluble	Solid	300.0	64569
880-34315-3	S-6 (2')	Soluble	Solid	300.0	64569
MB 880-64569/1-A	Method Blank	Soluble	Solid	300.0	64569
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	300.0	64569
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64569
880-34313-A-3-D MS	Matrix Spike	Soluble	Solid	300.0	64569
880-34313-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64569

Eurofins Midland

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

Date Collected: 10/10/23 00:00

Date Received: 10/11/23 14:19

Lab Sample ID: 880-34315-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 16:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64679	10/12/23 16:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			64718	10/12/23 18:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 18:16	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 17:39	CH	EET MID

Client Sample ID: S-6 (1.5')

Date Collected: 10/10/23 00:00

Date Received: 10/11/23 14:19

Lab Sample ID: 880-34315-2

Matrix: Solid

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 4.97 g Total/NA 5 mL 64502 10/11/23 15:04 MNR EET MID Total/NA 8021B 5 mL **EET MID** Analysis 1 5 mL 64523 10/12/23 17:15 MNR Total/NA Total BTEX 64679 10/12/23 17:15 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 64718 10/12/23 18:38 SM **EET MID** Total/NA 8015NM Prep Prep 9.99 g 10 mL 64505 10/11/23 15:46 TKC EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 64518 10/12/23 18:38 SM **EET MID** Soluble Leach DI Leach 4.99 g 50 mL 64569 10/12/23 14:15 AG **EET MID** Soluble Analysis 300.0 50 mL 50 mL 64695 10/15/23 17:45 СН **EET MID**

Client Sample ID: S-6 (2')

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Lab Sample ID: 880-34315-3

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 17:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64679	10/12/23 17:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			64718	10/12/23 19:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 19:01	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 17:50	CH	EET MID

Laboratory References:

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

Eurofins Midland

Page 16 of 21 10/16/2023 Released to Imaging: 12/11/2023 1:08:13 PM

Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-34315-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Progr	am	Identification Number	Expiration Date	
Texas	NELA	Р	T104704400-23-26	06-30-24	
• .	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		

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Method Summary

Client: Carmona Resources

Job ID: 880-34315-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1

SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34315-1	S-6 (0-1')	Solid	10/10/23 00:00	10/11/23 14:19
880-34315-2	S-6 (1.5')	Solid	10/10/23 00:00	10/11/23 14:19
880-34315-3	S-6 (2')	Solid	10/10/23 00:00	10/11/23 14:19

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880-34315 Chain of Custody

Project Manager	Clinton Merritt				T			T							7	·								
Company Name	Carmona Reso	urcoc			Bill to (if				die San							<u> </u>		***************************************				Comments	~~~~	
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Address	T	***************************************			Address			990 T	own a	nd Cour	try Blvc	<u></u>		···		State		-						
City, State ZIP	Midland TX 79	701			City, Stat			•	ton, TX	77024						l						/UST RF	RP L	evel IV
Phone				Email	msanjar	1@mara	thonoil c	om						······		Delive	erables	EDD	<u> </u>		ADaP	L O	ther .	
Project Name	Rapt	or West 3 Stat	e #2H	Turn	Around								ANAL	YSIS F	REQL	JEST						Pres	ervative (eaho?
Project Number		2154		✓ Routine	Rush	'n	Pres. Code															None NO		Vater H ₂ O
Project Location	Lea	County New N	1exico	Due Date	5 d	lav																Cool Cool		2.
Sampler's Name		ССМ							MRO)													HCL HC		OH Me O₃ HN
PO #:							ş		+													H ₂ S0 ₄ . H ₂		O ₃ ⊓N OH Na
SAMPLE RECEI	IPT Ter	np Blank	Yes No	Wet Ice	Yes	No	Parameters	8	TPH 8015M (GRO + DRO	0 0	Ì										1	H ₃ PO ₄ HP	ivac	zi iva
Received Intact:	(Ye		Thermometer ID		力	193	ram	BTEX 8021B	1+0	e 300											1	NaHSO ₄ N	ARIS	
Cooler Custody Seal	s Yes	No (N/A)	Correction Facto	г	4.0	20	Pa	Ä	GR(Chloride :				1							1	Na ₂ S ₂ O ₃ N		
Sample Custody Sea	als Yes	No WA	Temperature Re	ading	7.0	Õ.		6	5M (5												Zn Acetate+		1
Total Containers			Corrected Temps	erature	1	4_			801													NaOH+Asc		
Sample Ider	ntification	Date	Time	Soil	Water	Grab/ Comp	# of Cont		TPH														ole Comr	
S-6 (0		10/10/2023		Х		G	1	Х	Х	X											T			
S-6 (1	l 5')	10/10/2023		Х		G	1	Х	Х	Х											†			
S-6 ((2')	10/10/2023		X		G	1	X	Х	Х														
																								···

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Comments Email	l results to Mik	e Carmona m	carmona@car	monaresource	es com, (Conner	Moehrir	ig cm	oehrii	ng@ca	rmona	areso	urces	com,	Clin	t Merr	ritt Me	errittC	@car	mon	areso	urces com		
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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34315-1

SDG Number: Lea County, New Mexico

List Source: Eurofins Midland

Login Number: 34315 List Number: 1

Creator: Rodriguez, Leticia

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Raptor West 3 State #2H SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34309-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Released to Imaging: 12/11/2023 1:08:13 PM

Client: Carmona Resources Project/Site: Raptor West 3 State #2H Laboratory Job ID: 880-34309-1 SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources Job ID: 880-34309-1 Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Qualifiers

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GC	v	U	А

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

GC Semi VOA

Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description

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

Glossary

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

Decision Level Concentration (Radiochemistry) DLC

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 Minimum Level (Dioxin) ML 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

Presumptive **PRES** 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) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1

SDG: Lea County, New Mexico

Job ID: 880-34309-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-34309-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 10/11/2023 2:19 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 -7.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-7 (0-1') (880-34309-1) and S-7 (1.5') (880-34309-2).

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-64494 and analytical batch 880-64432 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-34290-A-4-B MS). 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.

GC Semi VOA

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 880-64568 and analytical batch 880-64693 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Eurofins Midland 10/16/2023

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Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Client Sample ID: S-7 (0-1')

Lab Sample ID: 880-34309-1

Date Collected: 10/10/23 00:00 Matrix: Solid
Date Received: 10/11/23 14:19

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/11/23 15:00	10/12/23 06:34	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/11/23 15:00	10/12/23 06:34	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/11/23 15:00	10/12/23 06:34	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/11/23 15:00	10/12/23 06:34	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/11/23 15:00	10/12/23 06:34	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/11/23 15:00	10/12/23 06:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				10/11/23 15:00	10/12/23 06:34	1
1,4-Difluorobenzene (Surr)	104		70 - 130				10/11/23 15:00	10/12/23 06:34	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/12/23 06:34	
	el Range Organ	ics (DRO) (0			99				
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (0 Qualifier		MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier	GC)	MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result <50.0	Qualifier U	GC) RL 50.0	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte	Result <50.0 sel Range Orga	Qualifier U	GC) RL 50.0		Unit	<u>D</u>	Prepared Prepared	Analyzed	
Analyte Total TPH Method: SW846 8015B NM - Die	Result <50.0 sel Range Orga	Qualifier Unics (DRO) Qualifier	GC) RL 50.0		Unit mg/Kg			Analyzed 10/12/23 12:02	1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte	Result <50.0 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	(GC) RL RL		Unit mg/Kg		Prepared	Analyzed 10/12/23 12:02 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	(GC) RL RL		Unit mg/Kg		Prepared	Analyzed 10/12/23 12:02 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U nics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 10/11/23 15:46 10/11/23 15:46	Analyzed 10/12/23 12:02 Analyzed 10/12/23 12:02 10/12/23 12:02	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 Sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 10/11/23 15:46	Analyzed 10/12/23 12:02 Analyzed 10/12/23 12:02	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 10/11/23 15:46 10/11/23 15:46 10/11/23 15:46 Prepared	Analyzed 10/12/23 12:02 Analyzed 10/12/23 12:02 10/12/23 12:02 10/12/23 12:02 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	GC) RL 50.0 (GC) RL 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 10/11/23 15:46 10/11/23 15:46 10/11/23 15:46	Analyzed 10/12/23 12:02 Analyzed 10/12/23 12:02 10/12/23 12:02 10/12/23 12:02	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 10/11/23 15:46 10/11/23 15:46 10/11/23 15:46 Prepared	Analyzed 10/12/23 12:02 Analyzed 10/12/23 12:02 10/12/23 12:02 10/12/23 12:02 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 10/11/23 15:46 10/11/23 15:46 10/11/23 15:46 Prepared 10/11/23 15:46	Analyzed 10/12/23 12:02 Analyzed 10/12/23 12:02 10/12/23 12:02 10/12/23 12:02 Analyzed 10/12/23 12:02	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 10/11/23 15:46 10/11/23 15:46 10/11/23 15:46 Prepared 10/11/23 15:46	Analyzed 10/12/23 12:02 Analyzed 10/12/23 12:02 10/12/23 12:02 10/12/23 12:02 Analyzed 10/12/23 12:02	1 Dil Fac 1 1 1 1 Dil Fac 1

Client Sample ID: S-7 (1.5')

Lab Sample ID: 880-34309-2

Date Collected: 10/10/23 00:00 Matrix: Solid
Date Received: 10/11/23 14:19

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:00	10/12/23 06:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:00	10/12/23 06:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:00	10/12/23 06:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/23 15:00	10/12/23 06:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:00	10/12/23 06:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/23 15:00	10/12/23 06:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				10/11/23 15:00	10/12/23 06:55	1
1,4-Difluorobenzene (Surr)	107		70 - 130				10/11/23 15:00	10/12/23 06:55	1

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12

Client Sample Results

Client: Carmona Resources

Client Sample ID: S-7 (1.5')

Date Collected: 10/10/23 00:00

Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Lab Sample ID: 880-34309-2

Job ID: 880-34309-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398		0.00398		mg/Kg	<u>-</u>		10/12/23 06:55	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			10/12/23 12:24	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.3	U	50.3		mg/Kg		10/11/23 15:46	10/12/23 12:24	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.3	U	50.3		mg/Kg		10/11/23 15:46	10/12/23 12:24	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/11/23 15:46	10/12/23 12:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119	-	70 - 130				10/11/23 15:46	10/12/23 12:24	1
o-Terphenyl	127		70 - 130				10/11/23 15:46	10/12/23 12:24	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		5.03		mg/Kg			10/15/23 14:44	

Surrogate Summary

Client: Carmona Resources Job ID: 880-34309-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

_				Percent Sur
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-34290-A-4-B MS	Matrix Spike	111	98	
880-34290-A-4-C MSD	Matrix Spike Duplicate	122	142 S1+	
880-34309-1	S-7 (0-1')	104	104	
880-34309-2	S-7 (1.5')	103	107	
LCS 880-64494/1-A	Lab Control Sample	108	94	
LCSD 880-64494/2-A	Lab Control Sample Dup	104	100	
MB 880-64332/5-A	Method Blank	108	122	
MB 880-64494/5-A	Method Blank	118	129	
Surrogate Legend				
BFB = 4-Bromofluorobenz	zene (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-34290-A-4-E MS	Matrix Spike	97	92
880-34290-A-4-F MSD	Matrix Spike Duplicate	97	91
880-34309-1	S-7 (0-1')	110	117
880-34309-2	S-7 (1.5')	119	127
LCS 880-64505/2-A	Lab Control Sample	97	103
LCSD 880-64505/3-A	Lab Control Sample Dup	84	90
MB 880-64505/1-A	Method Blank	96	109

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources Job ID: 880-34309-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64332/5-A

Lab Sample ID: MB 880-64494/5-A

Matrix: Solid

Analysis Batch: 64432

Matrix: Solid Analysis Batch: 64432 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64332

1

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/10/23 10:38	10/11/23 12:35	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10/10/23 10	38 10/11/23 12:35	1
1,4-Difluorobenzene (Surr)	122		70 - 130	10/10/23 10	38 10/11/23 12:35	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64494

MR MR Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 10/11/23 13:47 10/12/23 00:11 Toluene <0.00200 U 0.00200 mg/Kg 10/11/23 13:47 10/12/23 00:11 Ethylbenzene <0.00200 U 0.00200 mg/Kg 10/11/23 13:47 10/12/23 00:11 0.00400 m-Xylene & p-Xylene <0.00400 U mg/Kg 10/11/23 13:47 10/12/23 00:11 <0.00200 U 0.00200 o-Xylene mg/Kg 10/11/23 13:47 10/12/23 00:11 Xylenes, Total <0.00400 U 0.00400 mg/Kg 10/11/23 13:47 10/12/23 00:11

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	10/11/23 13:47	10/12/23 00:11	1
1,4-Difluorobenzene (Surr)	129		70 - 130	10/11/23 13:47	10/12/23 00:11	1

Lab Sample ID: LCS 880-64494/1-A

Matrix: Solid

Analysis Batch: 64432

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

Prep Batch: 64494

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09030		mg/Kg		90	70 - 130	
Toluene	0.100	0.08593		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.08307		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene	0.200	0.1713		mg/Kg		86	70 - 130	
o-Xylene	0.100	0.08396		mg/Kg		84	70 - 130	

LCS LCS

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

Lab Sample ID: LCSD 880-64494/2-A

Matrix: Solid

Analysis Batch: 64432

Client Sample ID: Lab Control Sample Dup)
Prep Type: Total/NA	4

Prep Batch: 64494

	Бріке	LCSD LCSD				%Rec		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09034	mg/Kg		90	70 - 130	0	35	

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QC Sample Results

Client: Carmona Resources Job ID: 880-34309-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-64494/2-A

Matrix: Solid Analysis Batch: 64432 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 64494

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08974		mg/Kg		90	70 - 130	4	35
Ethylbenzene	0.100	0.08819		mg/Kg		88	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1943		mg/Kg		97	70 - 130	13	35
o-Xylene	0.100	0.09133		mg/Kg		91	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: 880-34290-A-4-B MS

Matrix: Solid

Analysis Batch: 64432

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64494

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.0998	0.08825		mg/Kg		88	70 - 130	
Toluene	<0.00198	U F1	0.0998	0.07919		mg/Kg		79	70 - 130	
Ethylbenzene	<0.00198	U F1	0.0998	0.08069		mg/Kg		81	70 - 130	
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1791		mg/Kg		90	70 - 130	
o-Xylene	<0.00198	U	0.0998	0.08455		mg/Kg		85	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: 880-34290-A-4-C MSD

Matrix: Solid

Analysis Batch: 64432

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64494

		Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Benzene	<0.00198	U	0.100	0.1203		mg/Kg		120	70 - 130	31	35
	Toluene	<0.00198	U F1	0.100	0.05846	F1	mg/Kg		58	70 - 130	30	35
	Ethylbenzene	<0.00198	U F1	0.100	0.06805	F1	mg/Kg		68	70 - 130	17	35
	m-Xylene & p-Xylene	<0.00396	U	0.201	0.2010		mg/Kg		100	70 - 130	12	35
	o-Xylene	<0.00198	U	0.100	0.09822		mg/Kg		98	70 - 130	15	35
١												

MSD MSD

мв мв

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	142	S1+	70 - 130

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

Lab Sample ID: MB 880-64505/1-A

Matrix: Solid

Analysis Batch: 64518

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

Prep Batch: 64505

Result Qualifier MDL Unit Prepared <50.0 U 50.0 10/11/23 15:46 10/12/23 08:09 Gasoline Range Organics mg/Kg

(GRO)-C6-C10

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Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1

SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-64505/1-A

Lab Sample ID: LCS 880-64505/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 64518

Analysis Batch: 64518

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64505

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	96		70 - 130	10/11/23 15:46	10/12/23 08:09	1
l	o-Terphenyl	109		70 - 130	10/11/23 15:46	10/12/23 08:09	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64505

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 952.4 95 70 - 130 mg/Kg (GRO)-C6-C10 1000 912.6 Diesel Range Organics (Over mg/Kg 91 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery Qualit	fier Limits
1-Chlorooctane	97	70 - 130
o-Terphenyl	103	70 - 130

Lab Sample ID: LCSD 880-64505/3-A Client Sample ID: Lab Control Sample Dup

Mat

Ana

atrix: Solid							Prep	Type: To	tal/NA	
nalysis Batch: 64518							Pre	p Batch:	64505	
	Spike	LCSD	LCSD				%Rec		RPD	
alvto	hahhΔ	Result	Qualifier	Unit	n	%Rec	l imite	RPD	Limit	

	Орико	2002	2002				701100		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	856.3		mg/Kg		86	70 - 130	11	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	786.7		mg/Kg		79	70 - 130	15	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-34290-A-4-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 64518

Diesel Range Organics (Over

Analysis Batch: 64518									Prep	Batch: 6450	5
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<49.9	U	994	1158		mg/Kg		113	70 - 130		_
(GRO)-C6-C10											

889.8

mg/Kg

994

C10-C28)

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

<49.9 U

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70 - 130

QC Sample Results

Client: Carmona Resources Job ID: 880-34309-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34290-A-4-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 64518 Prep Type: Total/NA Prep Batch: 64505

Sample Sample Spike MSD MSD RPD Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics <49.9 U 994 1187 mg/Kg 116 70 - 130 2 20 (GRO)-C6-C10 Diesel Range Organics (Over 994 893.7 70 - 130 <49.9 U mg/Kg 87 0

C10-C28)

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64568/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 64693

MB MB

MDL Unit Result Qualifier Analyte RL Prepared Analyzed Dil Fac Chloride <5.00 5.00 10/13/23 17:10 mg/Kg

Lab Sample ID: LCS 880-64568/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 64693

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	251.6	-	mg/Kg		101	90 - 110	

Lab Sample ID: LCSD 880-64568/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 64693

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	251.8		ma/Ka		101	90 110		20	

Lab Sample ID: 880-34299-A-11-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 64693

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	282	F1	248	583.8	F1	ma/Ka		122	90 _ 110	

Lab Sample ID: 880-34299-A-11-C MSD

Matrix: Solid

Analysis Batch: 64693

Allalysis Datell. 04033											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	282	F1	248	639.2	F1	mg/Kg		144	90 - 110	9	20

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Prep Type: Soluble

Client Sample ID: Matrix Spike Duplicate

QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1

SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-64332/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 64432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34309-1	S-7 (0-1')	Total/NA	Solid	8021B	64494
880-34309-2	S-7 (1.5')	Total/NA	Solid	8021B	64494
MB 880-64332/5-A	Method Blank	Total/NA	Solid	8021B	64332
MB 880-64494/5-A	Method Blank	Total/NA	Solid	8021B	64494
LCS 880-64494/1-A	Lab Control Sample	Total/NA	Solid	8021B	64494
LCSD 880-64494/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64494
880-34290-A-4-B MS	Matrix Spike	Total/NA	Solid	8021B	64494
880-34290-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64494

Prep Batch: 64494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34309-1	S-7 (0-1')	Total/NA	Solid	5035	
880-34309-2	S-7 (1.5')	Total/NA	Solid	5035	
MB 880-64494/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64494/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64494/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34290-A-4-B MS	Matrix Spike	Total/NA	Solid	5035	
880-34290-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34309-1	S-7 (0-1')	Total/NA	Solid	Total BTEX	
880-34309-2	S-7 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34309-1	S-7 (0-1')	Total/NA	Solid	8015NM Prep	
880-34309-2	S-7 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34309-1	S-7 (0-1')	Total/NA	Solid	8015B NM	64505
880-34309-2	S-7 (1.5')	Total/NA	Solid	8015B NM	64505
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015B NM	64505
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64505
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64505
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015B NM	64505
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64505

QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1

SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 64712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34309-1	S-7 (0-1')	Total/NA	Solid	8015 NM	
880-34309-2	S-7 (1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34309-1	S-7 (0-1')	Soluble	Solid	DI Leach	
880-34309-2	S-7 (1.5')	Soluble	Solid	DI Leach	
MB 880-64568/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64568/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64568/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34299-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-34299-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 64693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34309-1	S-7 (0-1')	Soluble	Solid	300.0	64568
880-34309-2	S-7 (1.5')	Soluble	Solid	300.0	64568
MB 880-64568/1-A	Method Blank	Soluble	Solid	300.0	64568
LCS 880-64568/2-A	Lab Control Sample	Soluble	Solid	300.0	64568
LCSD 880-64568/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64568
880-34299-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	64568
880-34299-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64568

Eurofins Midland

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Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-34309-1

Matrix: Solid

Client Sample ID: S-7 (0-1')

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	64494	10/11/23 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64432	10/12/23 06:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64600	10/12/23 06:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			64712	10/12/23 12:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 12:02	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	64568	10/12/23 14:13	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64693	10/15/23 14:39	CH	EET MID

Client Sample ID: S-7 (1.5')

Date Collected: 10/10/23 00:00

Lab Sample ID: 880-34309-2

Matrix: Solid

Date Received: 10/11/23 14:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	64494	10/11/23 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64432	10/12/23 06:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64600	10/12/23 06:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			64712	10/12/23 12:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 12:24	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	64568	10/12/23 14:13	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64693	10/15/23 14:44	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-34309-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority		am	Identification Number	Expiration Date	
Texas	NELAF	0	T104704400-23-26	06-30-24	
,	are included in this report, bu	t the laboratory is not certif	fied by the governing authority. This lis	t may include analytes	
for which the agency d	oes not offer certification.				
for which the agency defined	oes not offer certification . Prep Method	Matrix	Analyte		
0 ,		Matrix Solid	Analyte Total TPH		

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Method Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1

SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

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Sample Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1

SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34309-1	S-7 (0-1')	Solid	10/10/23 00:00	10/11/23 14:19
880-34309-2	S-7 (1.5')	Solid	10/10/23 00:00	10/11/23 14:19

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10/16/2023

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Project Manager	Clinton Merritt				Bill to, (if a	ifferent)		Meloc	tie Sar	njari					_				W	ork O	rder	Comments	
Company Name	Carmona Reso				Company	Name		Mara	thon O	ıl Corpo	oration					Progr	am U	ST/PS	ат 🗀 Р	RP [row	nfields 📑 F	RC perfund
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City, State ZIP	Midland TX 79	701			City, State	∋ ZIP		Hous	ton TX	< 77024						Reporting Level II Level III ST/UST RRP Level IV							
Phone	<u> </u>			Email	msanjari	msanjari@marathonoil com							Deliverables EDD ADaPT Other										
	Pant	or West 3 Stat	:~ #2U			**************		T														T	
Project Name	Napit	Ji vvest 3 Stat	E #2F	Turr	Around							,	ANAL	YSIS I	REQU	JEST						Proso	rvative Codes
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Sampler's Name		CCM			1				MRO)													Cool Cool	MeOH Me
PO #:							ıρ		2 +													H ₂ SO ₄ H ₂	HNO₃ HN NaOH Na
SAMPLE RECE		ορ Blank	Yes No	Wet Ice	(Yes)	No.	Parameters	m	TPH 8015M (GRO + DRO +	0 0												H ₃ PO ₄ HP	Hadii Na
Received Intact:	CAS.	S NO	Thermometer ID	*	TU	B	ra m	BTEX 8021B	1 + 0	e 300												NaHSO ₄ N	ARIS
Cooler Custody Seal	s Yes	No (N/A)	Correction Facto	r	F.	20	a a	ĕ	GR	Chloride												Na ₂ S ₂ O ₃ N	
Sample Custody Sea	als Yes	No MA	Temperature Re		-1:	ρ,		, m	5M (등												Zn Acetate+	
Total Containers			Corrected Temp	erature	<u></u>	4_			1801													NaOH+Asco	orbic Acid SAPC
Sample Ide		Date	Time	Soil	Water	Grab/ Comp	# of Cont		Į di													Samp	le Comments
S-7 (0)-1')	10/10/2023		Х		G	1	X	Х	X								 	†		†		
S-7 (*	I 5')	10/10/2023		Х		G	1	X	Х	X									1		†		
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Comments Emai	l results to Mik	e Carmona n	ncarmona@car	monaresourc	es com, C	Conner	Moehrii	ng cm	oehri	ng@c	armon	areso	urces	com,	Clini	Merr	ritt Me	errittC	C@ca	rmon	aresc	urces com	
	F	Relinquished t	oy (Signature)					Date/	Time			***************************************			Rece	ived b	y (Si	gnatu	re)	>	<u>ー</u>		Date/Time
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Login Sample Receipt Checklist

Client: Carmona Resources Job Number: 880-34309-1 SDG Number: Lea County, New Mexico

Login Number: 34309 List Source: Eurofins Midland List Number: 1

Creator: Rodriguez, Leticia

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

Eurofins Midland

Released to Imaging: 12/11/2023 1:08:13 PM

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/16/2023 2:50:18 PM

JOB DESCRIPTION

Raptor West 3 State #2H SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34310-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 10/16/2023 2:50:18 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 **5**

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Client: Carmona Resources Project/Site: Raptor West 3 State #2H Laboratory Job ID: 880-34310-1 SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources

Job ID: 880-34310-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

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Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

 S1+
 Surrogate recovery exceeds control limits, high biased.

 U
 Indicates the analyte was analyzed for but not detected.

GC Semi VOA

 Qualifier
 Qualifier Description

 S1+
 Surrogate recovery exceeds control limits, high biased.

 U
 Indicates the analyte was analyzed for but not detected.

HPLC/IC Qualifier

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

Qualifier Description

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

%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

Eurofins Midland

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Case Narrative

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1

SDG: Lea County, New Mexico

Job ID: 880-34310-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-34310-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 10/11/2023 2:19 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 -7.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-8 (0-1') (880-34310-1) and S-8 (1.5') (880-34310-2).

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-64494 and analytical batch 880-64432 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-34290-A-4-B MS). 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-8 (1.5') (880-34310-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: S-8 (1.5') (880-34310-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-64569 and analytical batch 880-64695 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 ID: S-8 (0-1')

Lab Sample ID: 880-34310-1

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19 Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:00	10/12/23 07:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:00	10/12/23 07:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:00	10/12/23 07:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/11/23 15:00	10/12/23 07:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:00	10/12/23 07:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/11/23 15:00	10/12/23 07:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				10/11/23 15:00	10/12/23 07:15	1
1,4-Difluorobenzene (Surr)	117		70 - 130				10/11/23 15:00	10/12/23 07:15	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			10/10/00 10 10	
					0 0			10/12/23 12:46	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)		0 0			10/12/23 12:46	1
		nics (DRO) Qualifier	(GC)	MDL	Unit	D	Prepared	10/12/23 12:46 Analyzed	Dil Fac
Analyte Gasoline Range Organics				MDL		<u>D</u>	Prepared 10/11/23 15:46		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL	MDL	Unit	<u>D</u>	<u>.</u>	Analyzed	1 Dil Fac 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.1	Qualifier U	RL	MDL	Unit mg/Kg	<u> </u>	10/11/23 15:46	Analyzed 10/12/23 12:46	1 Dil Fac 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.1	Qualifier U U U	RL 50.1	MDL	Unit mg/Kg mg/Kg	<u>D</u>	10/11/23 15:46 10/11/23 15:46	Analyzed 10/12/23 12:46 10/12/23 12:46	Dil Fac 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.1 <50.1 <50.1	Qualifier U U U	FL 50.1 50.1 50.1	MDL	Unit mg/Kg mg/Kg	<u> </u>	10/11/23 15:46 10/11/23 15:46 10/11/23 15:46	Analyzed 10/12/23 12:46 10/12/23 12:46 10/12/23 12:46	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U U	50.1 50.1 50.1 Limits	MDL	Unit mg/Kg mg/Kg	<u> </u>	10/11/23 15:46 10/11/23 15:46 10/11/23 15:46 Prepared	Analyzed 10/12/23 12:46 10/12/23 12:46 10/12/23 12:46 Analyzed	1 1 1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion	Result	Qualifier U U Qualifier	50.1 50.1 50.1 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg	<u> </u>	10/11/23 15:46 10/11/23 15:46 10/11/23 15:46 Prepared 10/11/23 15:46	Analyzed 10/12/23 12:46 10/12/23 12:46 10/12/23 12:46 Analyzed 10/12/23 12:46	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	50.1 50.1 50.1 Limits 70 - 130 70 - 130		Unit mg/Kg mg/Kg	<u>D</u>	10/11/23 15:46 10/11/23 15:46 10/11/23 15:46 Prepared 10/11/23 15:46	Analyzed 10/12/23 12:46 10/12/23 12:46 10/12/23 12:46 Analyzed 10/12/23 12:46	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: S-8 (1.5')

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:00	10/12/23 07:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:00	10/12/23 07:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:00	10/12/23 07:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/11/23 15:00	10/12/23 07:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:00	10/12/23 07:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/11/23 15:00	10/12/23 07:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	304	S1+	70 - 130				10/11/23 15:00	10/12/23 07:35	1
1,4-Difluorobenzene (Surr)	84		70 - 130				10/11/23 15:00	10/12/23 07:35	1

Eurofins Midland

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Client Sample Results

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1 SDG: Lea County, New Mexico

ple ID: 880-34310-2

Client Sample ID: S-8 (1.5')	Lab Samp
Date Collected: 10/10/23 00:00	

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/12/23 07:35	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			10/12/23 13:08	
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.5	U	50.5		mg/Kg		10/11/23 15:46	10/12/23 13:08	-
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.5	U	50.5		mg/Kg		10/11/23 15:46	10/12/23 13:08	
C10-C28)									
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/11/23 15:46	10/12/23 13:08	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	126		70 - 130				10/11/23 15:46	10/12/23 13:08	
o-Terphenyl	136	S1+	70 - 130				10/11/23 15:46	10/12/23 13:08	•
Method: EPA 300.0 - Anions, Ion	Chromatograp	hv - Solubl	e						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	113		4.98		mg/Kg			10/15/23 15:52	1

Surrogate Summary

Client: Carmona Resources

Job ID: 880-34310-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-34290-A-4-B MS	Matrix Spike	111	98	
880-34290-A-4-C MSD	Matrix Spike Duplicate	122	142 S1+	
880-34310-1	S-8 (0-1')	99	117	
880-34310-2	S-8 (1.5')	304 S1+	84	
LCS 880-64494/1-A	Lab Control Sample	108	94	
LCSD 880-64494/2-A	Lab Control Sample Dup	104	100	
MB 880-64332/5-A	Method Blank	108	122	
MB 880-64494/5-A	Method Blank	118	129	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

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		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-34290-A-4-E MS	Matrix Spike	97	92
880-34290-A-4-F MSD	Matrix Spike Duplicate	97	91
880-34310-1	S-8 (0-1')	117	126
880-34310-2	S-8 (1.5')	126	136 S1+
LCS 880-64505/2-A	Lab Control Sample	97	103
LCSD 880-64505/3-A	Lab Control Sample Dup	84	90
MB 880-64505/1-A	Method Blank	96	109

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1

SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64332/5-A

Lab Sample ID: MB 880-64494/5-A

Matrix: Solid Analysis Batch: 64432 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64332

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/10/23 10:38	10/11/23 12:35	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10	0/10/23 10:38	10/11/23 12:35	1
1,4-Difluorobenzene (Surr)	122		70 - 130	10	0/10/23 10:38	10/11/23 12:35	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64494

Analysis Batch: 64432 мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 13:47	10/12/23 00:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 13:47	10/12/23 00:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 13:47	10/12/23 00:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/23 13:47	10/12/23 00:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 13:47	10/12/23 00:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/23 13:47	10/12/23 00:11	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prep	ared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	10/11/2	3 13:47	10/12/23 00:11	1
1,4-Difluorobenzene (Surr)	129		70 - 130	10/11/2	3 13:47	10/12/23 00:11	1

Lab Sample ID: LCS 880-64494/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 64432

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64494

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09030		mg/Kg		90	70 - 130	
Toluene	0.100	0.08593		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.08307		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene	0.200	0.1713		mg/Kg		86	70 - 130	
o-Xylene	0.100	0.08396		mg/Kg		84	70 - 130	

LCS LCS

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

Lab Sample ID: LCSD 880-64494/2-A

Matrix: Solid

Analysis Batch: 64432

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64494

RPD

Spike LCSD LCSD %Rec Result Qualifier Analyte Added Unit %Rec Limits RPD Limit Benzene 0.100 0.09034 mg/Kg 90 70 - 130 0

QC Sample Results

Client: Carmona Resources Job ID: 880-34310-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-64494/2-A

Matrix: Solid Analysis Batch: 64432 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 64494

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08974		mg/Kg		90	70 - 130	4	35
Ethylbenzene	0.100	0.08819		mg/Kg		88	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1943		mg/Kg		97	70 - 130	13	35
o-Xylene	0.100	0.09133		mg/Kg		91	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	104		70 - 130		
1,4-Difluorobenzene (Surr)	100		70 - 130		

Lab Sample ID: 880-34290-A-4-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 64432

Prep Type: Total/NA

Prep Batch: 64494

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene <0.00198 U 0.0998 0.08825 mg/Kg 88 70 - 130 Toluene <0.00198 UF1 0.0998 0.07919 79 70 - 130 mg/Kg Ethylbenzene 0.0998 0.08069 70 - 130 <0.00198 UF1 mg/Kg 81 0.200 m-Xylene & p-Xylene <0.00396 U 0.1791 90 70 - 130 mg/Kg o-Xylene <0.00198 U 0.0998 0.08455 mg/Kg 85 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: 880-34290-A-4-C MSD

Matrix: Solid Analysis Batch: 64432 Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64494

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.100	0.1203		mg/Kg		120	70 - 130	31	35
Toluene	<0.00198	U F1	0.100	0.05846	F1	mg/Kg		58	70 - 130	30	35
Ethylbenzene	<0.00198	U F1	0.100	0.06805	F1	mg/Kg		68	70 - 130	17	35
m-Xylene & p-Xylene	<0.00396	U	0.201	0.2010		mg/Kg		100	70 - 130	12	35
o-Xylene	<0.00198	U	0.100	0.09822		mg/Kg		98	70 - 130	15	35

MSD MSD

мв мв Result Qualifier

<50.0 U

Surrogate	76Recovery	Qualifier	LIIIIII
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	142	S1+	70 - 130

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

Lab Sample ID: MB 880-64505/1-A

Matrix: Solid

Analysis Batch: 64518

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

Prep Batch: 64505

10/12/23 08:09

Gasoline Range Organics (GRO)-C6-C10

Prepared

10/11/23 15:46

MDL Unit

mg/Kg

Eurofins Midland

50.0

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1 SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-64505/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-64505/2-A

Matrix: Solid

Analysis Batch: 64518

Analysis Batch: 64518

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 64505

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		10/11/23 15:46	10/12/23 08:09	1
C10-C28) OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/23 15:46	10/12/23 08:09	1
	Diesel Range Organics (Over C10-C28)	Analyte Result Diesel Range Organics (Over <50.0 C10-C28)	Diesel Range Organics (Over <50.0 U	Analyte Result Qualifier RL Diesel Range Organics (Over C10-C28) <50.0	AnalyteResult Diesel Range Organics (Over C10-C28)Result <50.0Qualifier URL UMDL mg/KgUnit mg/Kg	AnalyteResultQualifierRLMDLUnitDDiesel Range Organics (Over C10-C28)<50.0	Analyte Result Qualifier RL MDL Unit Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 10/11/23 15:46 C10-C28)	Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Diesel Range Organics (Over C10-C28) <50.0

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	10/11/23 15:46	10/12/23 08:09	1
o-Terphenyl	109		70 - 130	10/11/23 15:46	10/12/23 08:09	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64505

Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
1000	952.4		mg/Kg		95	70 - 130	
1000	912.6		mg/Kg		91	70 - 130	
	Added 1000	Added Result 1000 952.4	Added Result Qualifier 1000 952.4	Added Result Qualifier Unit 1000 952.4 mg/Kg	Added Result Qualifier Unit D mg/Kg	Added Result Qualifier Unit D %Rec 1000 952.4 mg/Kg 95	Added Result Qualifier Unit D %Rec Limits 1000 952.4 mg/Kg 95 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	103		70 - 130

Matrix: Solid Analysis Batch: 64518

Lab Sample ID: LCSD 880-64505/3-A

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

Prep Batch: 64505

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	856.3		mg/Kg		86	70 - 130	11	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	786.7		mg/Kg		79	70 - 130	15	20	
C10-C28)										

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 84 70 - 130 o-Terphenyl 90 70 - 130

Lab Sample ID: 880-34290-A-4-E MS

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 64505

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	994	1158		mg/Kg		113	70 - 130	
Diesel Range Organics (Over	<49.9	U	994	889.8		mg/Kg		87	70 - 130	

C10-C28)

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

Lab Sample ID: 880-34290-A-4-F MSD

QC Sample Results

Client: Carmona Resources Job ID: 880-34310-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64505

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	994	1187		mg/Kg		116	70 - 130	2	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	994	893.7		mg/Kg		87	70 - 130	0	20
040,000)											

C10-C28)

Matrix: Solid

Analysis Batch: 64518

MSD MSD

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64569/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 64695

мв мв

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/15/23 15:18	1

Lab Sample ID: LCS 880-64569/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 64695

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	274.9		mg/Kg		110	90 - 110	

Lab Sample ID: LCSD 880-64569/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 64695

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	273.8		mg/Kg		110	90 - 110	0	20	

Lab Sample ID: 880-34310-1 MS Client Sample ID: S-8 (0-1') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 64695

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	104	F1	249	301 2	F1	ma/Ka		116	90 110	

Lab Sample ID: 880-34310-1 MSD Client Sample ID: S-8 (0-1') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 64695

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Analysis Batom 64000												
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	104	F1	249	390.0	F1	ma/Ka		115	90 - 110		20	

QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1 SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-64332/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 64432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34310-1	S-8 (0-1')	Total/NA	Solid	8021B	64494
880-34310-2	S-8 (1.5')	Total/NA	Solid	8021B	64494
MB 880-64332/5-A	Method Blank	Total/NA	Solid	8021B	64332
MB 880-64494/5-A	Method Blank	Total/NA	Solid	8021B	64494
LCS 880-64494/1-A	Lab Control Sample	Total/NA	Solid	8021B	64494
LCSD 880-64494/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64494
880-34290-A-4-B MS	Matrix Spike	Total/NA	Solid	8021B	64494
880-34290-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64494

Prep Batch: 64494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34310-1	S-8 (0-1')	Total/NA	Solid	5035	
880-34310-2	S-8 (1.5')	Total/NA	Solid	5035	
MB 880-64494/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64494/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64494/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34290-A-4-B MS	Matrix Spike	Total/NA	Solid	5035	
880-34290-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34310-1	S-8 (0-1')	Total/NA	Solid	Total BTEX	
880-34310-2	S-8 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34310-1	S-8 (0-1')	Total/NA	Solid	8015NM Prep	
880-34310-2	S-8 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-64505/1-A Method Blank		Total/NA	Solid	8015NM Prep	
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34310-1	S-8 (0-1')	Total/NA	Solid	8015B NM	64505
880-34310-2	S-8 (1.5')	Total/NA	Solid	8015B NM	64505
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015B NM	64505
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64505
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64505
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015B NM	64505
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64505

QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1

SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 64713

Lab Sample II	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34310-1	S-8 (0-1')	Total/NA	Solid	8015 NM	
880-34310-2	S-8 (1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34310-1	S-8 (0-1')	Soluble	Solid	DI Leach	_
880-34310-2	S-8 (1.5')	Soluble	Solid	DI Leach	
MB 880-64569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34310-1 MS	S-8 (0-1')	Soluble	Solid	DI Leach	
880-34310-1 MSD	S-8 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 64695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
880-34310-1	S-8 (0-1')	Soluble	Solid	300.0	64569	
880-34310-2	S-8 (1.5')	Soluble	Solid	300.0	64569	
MB 880-64569/1-A	Method Blank	Soluble	Solid	300.0	64569	
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	300.0	64569	
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64569	
880-34310-1 MS	S-8 (0-1')	Soluble	Solid	300.0	64569	
880-34310-1 MSD	S-8 (0-1')	Soluble	Solid	300.0	64569	

Lab Chronicle

Client: Carmona Resources

Client Sample ID: S-8 (0-1')

Date Collected: 10/10/23 00:00

Date Received: 10/11/23 14:19

Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-34310-1

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 64494 Total/NA Prep 5.01 g 5 mL 10/11/23 15:00 MNR **EET MID** 8021B Total/NA Analysis 1 5 mL 5 mL 64432 10/12/23 07:15 MNR **EET MID** Total/NA Analysis Total BTEX 64601 10/12/23 07:15 SM **EET MID** Total/NA 8015 NM 10/12/23 12:46 **EET MID** Analysis 1 64713 SM 8015NM Prep Total/NA 9.98 g 64505 10/11/23 15:46 TKC EET MID Prep 10 mL Total/NA Analysis 8015B NM 1 uL 1 uL 64518 10/12/23 12:46 SM **EET MID** 5.03 g Soluble DI Leach 50 mL 64569 10/12/23 14:15 AG Leach **EET MID** Soluble Analysis 300.0 50 mL 50 mL 64695 10/15/23 15:35 СН **EET MID**

Client Sample ID: S-8 (1.5')

Date Collected: 10/10/23 00:00

Date Received: 10/11/23 14:19

Lab Sample ID: 880-34310-2

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	64494	10/11/23 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64432	10/12/23 07:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64601	10/12/23 07:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			64713	10/12/23 13:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 13:08	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 15:52	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-34310-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Progr	am	Identification Number	Expiration Date		
Texas	NELA	Р	T104704400-23-26	06-30-24		
• .	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes		
Analysis Method	Prep Method	Matrix	Analyte			
8015 NM		Solid	Total TPH			
Total BTEX		Solid	Total BTEX			

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Method Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1

SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

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Sample Summary

Solid

Client: Carmona Resources

Lab Sample ID

880-34310-1

880-34310-2

Project/Site: Raptor West 3 State #2H

Client Sample ID

S-8 (0-1')

S-8 (1.5')

Job ID: 880-34310-1

SDG: Lea County, New Mexico

Matrix	Collected	Received
Solid	10/10/23 00:00	10/11/23 14:19

10/10/23 00:00

10/11/23 14:19

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Project Manager	Clinton Merritt			······································	Bill to (ir di	ifferent)		Meloc	lie Sar	ijarı					ĪΓ		7777	W	ork O	rder	Comments	
Company Name	Carmona Reso	ources			Company	Name		Marat	hon O	l Corpo	ration				Program UST/PST PRP rownfields RC perfund							
Address	310 W Wall St	Ste 500			Address			990 T	own a	nd Cou	ntry Blvd				State of Project:							
City State ZIP	Midland TX 79	701			City, State	ZIP		Houston TX 77024													□Level IV □	
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Project Name	Rapto	or West 3 Stat	te #2H	Turn Around																		in the second se
Project Number				n Around Rush		Pres.	 				At	VALY	SIS RI	QUES	T		Т.			Preserva	tive Codes	
							Code													<u> </u>	None NO	DI Water H₂O
Project Location	Lea	County New N	Mexico	Due Date	5 da	ay			<u> </u>				ĺ		-	ł					Cool Cool	MeOH Me
Sampler's Name PO #:		CUM		-		ĺ			TPH 8015M (GRO + DRO + MRO)				ĺ						1		HCL HC	HNO ₃ HN
	IDT -		T F.	\	T		ers		† 0												H ₂ S0 ₄ . H ₂	NaOH Na
SAMPLE RECE	eceived Intact: Cooler Custody Seals Ample Custody Seals Yes No NA Thermometer Yes No NA Correction Fa Temperature		Yes (No	Wet Ice	Yes		Parameters	21B	Pa	Chloride 300 0			1								H₃PO₄ HP	İ
			 			10	ara	BTEX 8021B	Ď	de 3											NaHSO4 NABI	1
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Total Containers			Corrected Temp		 \	E.			15M	Ö											Zn Acetate+Na	
Total Contamers		T	Tourected remp	T	<u> </u>				1 8 H							1					NaOH+Ascorbi	Acid SAPC
Sample Ider		Date	Time	Soil	Water	Grab/ Comp	# of Cont		₽												Sample	Comments
S-8 (0		10/10/2023		X		G	1	Х	Х	Х										1		
S-8 (1	1 5')	10/10/2023		X		G	1	Х	Х	Х							_		 	1		
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1)											Date/Time									

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34310-1

SDG Number: Lea County, New Mexico

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Login Number: 34310 List Source: Eurofins Midland
List Number: 1

Creator: Rodriguez, Leticia

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

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/16/2023 2:54:22 PM

JOB DESCRIPTION

Raptor West 3 State #2H SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34317-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 10/16/2023 2:54:22 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 7

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Client: Carmona Resources Project/Site: Raptor West 3 State #2H Laboratory Job ID: 880-34317-1 SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources

Job ID: 880-34317-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

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Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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.

Eisted 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

Eurofins Midland

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Case Narrative

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1

SDG: Lea County, New Mexico

Job ID: 880-34317-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-34317-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 10/11/2023 2:19 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 -7.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-6") (880-34317-1), H-2 (0-6") (880-34317-2), H-3 (0-6") (880-34317-3), H-4 (0-6") (880-34317-4), H-5 (0-6") (880-34317-5), H-6 (0-6") (880-34317-6), H-7 (0-6") (880-34317-7) and H-8 (0-6") (880-34317-8).

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-64532 and analytical batch 880-64515 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-64515/5) and (LCS 880-64532/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (880-34316-A-1-C MS) and (880-34316-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: H-2 (0-6") (880-34317-2), H-3 (0-6") (880-34317-3), H-4 (0-6") (880-34317-4), H-5 (0-6") (880-34317-5), H-6 (0-6") (880-34317-6) and H-7 (0-6") (880-34317-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: H-8 (0-6") (880-34317-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The continuing calibration verification (CCV) associated with batch 880-64515 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) due to being inadvertently double spiked. Percent recoveries are based on the amount spiked. The associated samples are impacted: (CCV 880-64515/20) and (CCV 880-64515/31).

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 880-64568 and analytical batch 880-64693 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because

Case Narrative

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1

SDG: Lea County, New Mexico

Job ID: 880-34317-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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.

Project/Site: Raptor West 3 State #2H

Client: Carmona Resources

Lab Sample ID: 880-34317-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/11/23 16:59	10/12/23 12:30	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/11/23 16:59	10/12/23 12:30	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/11/23 16:59	10/12/23 12:30	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/11/23 16:59	10/12/23 12:30	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/11/23 16:59	10/12/23 12:30	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/11/23 16:59	10/12/23 12:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				10/11/23 16:59	10/12/23 12:30	1
1,4-Difluorobenzene (Surr)	92		70 - 130				10/11/23 16:59	10/12/23 12:30	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403		0.00403		mg/Kg			10/12/23 12:30	1
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1		50.1		mg/Kg	— <u>-</u>		10/12/23 12:46	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		10/12/23 10:42	10/12/23 12:46	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		10/12/23 10:42	10/12/23 12:46	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/12/23 10:42	10/12/23 12:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				10/12/23 10:42	10/12/23 12:46	1
1-Chioroociane							10/12/23 10:42	10/12/23 12:46	1
o-Terphenyl -	121		70 - 130				10/12/20 10.42	10/12/23 12.40	i
		hy - Solubl					10/12/20 10:42	10/12/23 12.40	,
o-Terphenyl	Chromatograp	ohy - Solubl Qualifier		MDL	Unit	D	Prepared	Analyzed	Dil Fac

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

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/11/23 16:59	10/12/23 12:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/11/23 16:59	10/12/23 12:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				10/11/23 16:59	10/12/23 12:51	1
1,4-Difluorobenzene (Surr)	98		70 - 130				10/11/23 16:59	10/12/23 12:51	1

Eurofins Midland

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Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-34317-2

Client Sample ID: H-2 (0-6") Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

— Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/12/23 12:51	1
_ Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			10/12/23 13:08	1
_ Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.5	U	50.5		mg/Kg		10/12/23 10:42	10/12/23 13:08	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.5	U	50.5		mg/Kg		10/12/23 10:42	10/12/23 13:08	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/12/23 10:42	10/12/23 13:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	160	S1+	70 - 130				10/12/23 10:42	10/12/23 13:08	1
o-Terphenyl	148	S1+	70 - 130				10/12/23 10:42	10/12/23 13:08	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solubl	le.						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.8		5.00		mg/Kg	— <u> </u>		10/13/23 18:22	1

Client Sample ID: H-3 (0-6") Lab Sample ID: 880-34317-3 Date Collected: 10/10/23 00:00 **Matrix: Solid**

Date Received: 10/11/23 14:19

Gasoline Range Organics

Diesel Range Organics (Over

Released to Imaging: 12/11/2023 1:08:13 PM

(GRO)-C6-C10

C10-C28)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/11/23 16:59	10/12/23 13:11	
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/23 16:59	10/12/23 13:11	•
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/23 16:59	10/12/23 13:11	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/23 16:59	10/12/23 13:11	
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/23 16:59	10/12/23 13:11	4
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/23 16:59	10/12/23 13:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				10/11/23 16:59	10/12/23 13:11	
1,4-Difluorobenzene (Surr)	101		70 - 130				10/11/23 16:59	10/12/23 13:11	7
Method: TAL SOP Total BTEX	- Total BTEX Cald	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/12/23 13:11	1
Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/12/23 13:30	

Eurofins Midland

10/12/23 13:30

10/12/23 13:30

49.7

49.7

mg/Kg

mg/Kg

10/12/23 10:42

10/12/23 10:42

<49.7 U

<49.7 U

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

Date Collected: 10/10/23 00:00

Date Received: 10/11/23 14:19

Client: Carmona Resources Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-34317-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/12/23 10:42	10/12/23 13:30	1
Surrogate %R	ecovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				10/12/23 10:42	10/12/23 13:30	1
o-Terphenyl	124		70 - 130				10/12/23 10:42	10/12/23 13:30	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.4		4.99		mg/Kg			10/13/23 18:27	1

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

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Lab Sample ID: 880-34317-4

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac Benzene <0.00202 U 0.00202 10/11/23 16:59 10/12/23 13:32 mg/Kg Toluene <0.00202 U 0.00202 10/11/23 16:59 10/12/23 13:32 mg/Kg Ethylbenzene <0.00202 U 0.00202 10/11/23 16:59 10/12/23 13:32 mg/Kg m-Xylene & p-Xylene <0.00404 U 0.00404 10/11/23 16:59 10/12/23 13:32 mg/Kg o-Xylene <0.00202 U 0.00202 mg/Kg 10/11/23 16:59 10/12/23 13:32 Xylenes, Total <0.00404 U 0.00404 mg/Kg 10/11/23 16:59 10/12/23 13:32

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98	70 - 130	10/11/23 16:59	10/12/23 13:32	1
1,4-Difluorobenzene (Surr)	96	70 - 130	10/11/23 16:59	10/12/23 13:32	1

Method: TAL SOP 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			10/12/23 13:32	1

Method: SW846 8015 NM - Diesel Range (Org	gani	cs	(DRO)	(GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/12/23 13:52	1

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

			(/					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		10/12/23 10:42	10/12/23 13:52	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		10/12/23 10:42	10/12/23 13:52	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/12/23 10:42	10/12/23 13:52	1
Currogata	% Pocovory	Qualifier	Limite			Propared	Analyzad	Dil Esc

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	10/12/23 10:42	10/12/23 13:52	1
o-Terphenyl	128		70 - 130	10/12/23 10:42	10/12/23 13:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		5.01		mg/Kg			10/13/23 18:32	1

Client: Carmona Resources

Date Received: 10/11/23 14:19

Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-34317-5

Matrix: Solid

Client Sample ID: H-5 (0-6") Date Collected: 10/10/23 00:00

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

RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 0.00200 10/11/23 16:59 10/12/23 13:52 mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 10/11/23 16:59 10/12/23 13:52 Ethylbenzene <0.00200 U 0.00200 mg/Kg 10/11/23 16:59 10/12/23 13:52 0.00401 10/12/23 13:52 m-Xylene & p-Xylene <0.00401 U mg/Kg 10/11/23 16:59 0.00200 10/12/23 13:52 o-Xylene <0.00200 U mg/Kg 10/11/23 16:59 Xylenes, Total <0.00401 U 0.00401 10/11/23 16:59 10/12/23 13:52 mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 99 70 - 13010/11/23 16:59 10/12/23 13:52 1,4-Difluorobenzene (Surr) 100 70 - 130 10/11/23 16:59 10/12/23 13:52

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RI MDL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00401 0.00401 mg/Kg 10/12/23 13:52

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Total TPH <49.6 U 49.6 mg/Kg 10/12/23 14:14

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

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <49.6 U 10/12/23 14:14 49.6 10/12/23 10:42 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.6 U 49.6 10/12/23 10:42 10/12/23 14:14 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <49.6 U 49.6 10/12/23 10:42 10/12/23 14:14 mg/Kg

%Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane 146 S1+ 70 - 130 10/12/23 10:42 10/12/23 14:14 138 S1+ 70 - 130 10/12/23 10:42 o-Terphenyl 10/12/23 14:14

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 4.97 mg/Kg 10/13/23 18:37 Chloride 91.5

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

Date Collected: 10/10/23 00:00

Date Received: 10/11/23 14:19

Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier MDL Unit Analyte RL D Prepared Dil Fac Analyzed Benzene <0.00202 U 0.00202 10/11/23 16:59 10/12/23 14:13 mg/Kg Toluene <0.00202 U 0.00202 mg/Kg 10/11/23 16:59 10/12/23 14:13 Ethylbenzene <0.00202 U 0.00202 mg/Kg 10/11/23 16:59 10/12/23 14:13 m-Xylene & p-Xylene <0.00403 U 0.00403 mg/Kg 10/11/23 16:59 10/12/23 14:13 o-Xylene <0.00202 U 0.00202 mg/Kg 10/11/23 16:59 10/12/23 14:13 mg/Kg Xylenes, Total <0.00403 U 0.00403 10/11/23 16:59 10/12/23 14:13

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 103 70 - 130 4-Bromofluorobenzene (Surr) 10/11/23 16:59 10/12/23 14:13 1,4-Difluorobenzene (Surr) 102 70 - 130 10/11/23 16:59 10/12/23 14:13

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Lab Sample ID: 880-34317-6

Matrix: Solid

Client Sample Results

Client: Carmona Resources

Job ID: 880-34317-1 SDG: Lea County, New Mexico Project/Site: Raptor West 3 State #2H

Lab Sample ID: 880-34317-6

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

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Matrix: Solid

Dil Fac

Matrix: Solid

Analyzed

10/13/23 18:52

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/12/23 14:13	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			10/12/23 14:36	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.3	U	50.3		mg/Kg		10/12/23 10:42	10/12/23 14:36	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.3	U	50.3		mg/Kg		10/12/23 10:42	10/12/23 14:36	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/12/23 10:42	10/12/23 14:36	1
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Surrogate		S1+	70 - 130				10/12/23 10:42	10/12/23 14:36	1
Surrogate 1-Chlorooctane	131	31+	70 - 700						

4.95 Client Sample ID: H-7 (0-6") Lab Sample ID: 880-34317-7

RL

MDL Unit

mg/Kg

D

Prepared

Date Collected: 10/10/23 00:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

95.9

Date Received: 10/11/23 14:19

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/11/23 16:59	10/12/23 14:33	1
Toluene	< 0.00199	U	0.00199		mg/Kg		10/11/23 16:59	10/12/23 14:33	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		10/11/23 16:59	10/12/23 14:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/23 16:59	10/12/23 14:33	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		10/11/23 16:59	10/12/23 14:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/23 16:59	10/12/23 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				10/11/23 16:59	10/12/23 14:33	1
			70 400				10/11/23 16:59	10/12/23 14:33	1
Method: TAL SOP Total BTEX		culation Qualifier	70 ₋ 130 RL	MDL	Unit	D	Prepared	Analyzed	
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Analyte	- Total BTEX Cald			MDL	Unit	D			·
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies	- Total BTEX Calc Result <0.00398 sel Range Organ	Qualifier U	RL 0.00398		mg/Kg		Prepared	Analyzed 10/12/23 14:33	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	- Total BTEX Calc Result <0.00398 sel Range Organ Result	Qualifier U ics (DRO) (Qualifier	RL 0.00398			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX -	- Total BTEX Calc Result <0.00398 sel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00398		mg/Kg		Prepared	Analyzed 10/12/23 14:33	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	- Total BTEX Calc Result <0.00398 sel Range Organ Result <50.5	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 ————————————————————————————————————		mg/Kg		Prepared	Analyzed 10/12/23 14:33 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH	- Total BTEX Calc Result <0.00398 sel Range Organ Result <50.5	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 ————————————————————————————————————	MDL	mg/Kg		Prepared	Analyzed 10/12/23 14:33 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Di	- Total BTEX Calc Result <0.00398 sel Range Organ Result <50.5	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00398 GC) RL 50.5	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 10/12/23 14:33 Analyzed 10/12/23 14:58	Dil Fac

Client Sample Results

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-34317-7

Matrix: Solid

Client Sample ID: H-7 (0-6")

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC) (Continue	ed)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/12/23 10:42	10/12/23 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				10/12/23 10:42	10/12/23 14:58	1
o-Terphenyl	127		70 - 130				10/12/23 10:42	10/12/23 14:58	1

Method: EPA 300.0 - Anions, Ion Cl	nromatograp	hy - Soluble)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		4.98		mg/Kg			10/13/23 18:57	1

Client Sample ID: H-8 (0-6")

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

Lab Sample ID: 880-34317-8

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 14:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 14:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 14:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/11/23 16:59	10/12/23 14:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 14:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/11/23 16:59	10/12/23 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				10/11/23 16:59	10/12/23 14:54	1
1,4-Difluorobenzene (Surr)	100		70 - 130				10/11/23 16:59	10/12/23 14:54	1

Method: TAL SOP Total BTEX - Tot	al BTEX Calc	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/12/23 14:54	1

Method: SW846 8015 NM - Diesel Range	Organ	ics (DRO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			10/12/23 15:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U	50.1		mg/Kg		10/12/23 10:42	10/12/23 15:42	•
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.1	U	50.1		mg/Kg		10/12/23 10:42	10/12/23 15:42	•
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/12/23 10:42	10/12/23 15:42	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	131	S1+	70 - 130				10/12/23 10:42	10/12/23 15:42	
o-Terphenyl	124		70 - 130				10/12/23 10:42	10/12/23 15:42	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	113		4.96		mg/Kg			10/15/23 14:50	1	

Surrogate Summary

Client: Carmona Resources

Job ID: 880-34317-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limit
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-34317-1	H-1 (0-6")	97	92	
380-34317-1 MS	H-1 (0-6")	121	97	
380-34317-1 MSD	H-1 (0-6")	111	91	
380-34317-2	H-2 (0-6")	106	98	
380-34317-3	H-3 (0-6")	107	101	
880-34317-4	H-4 (0-6")	98	96	
380-34317-5	H-5 (0-6")	99	100	
880-34317-6	H-6 (0-6")	103	102	
80-34317-7	H-7 (0-6")	106	99	
880-34317-8	H-8 (0-6")	108	100	
CS 880-64507/1-A	Lab Control Sample	103	96	
_CSD 880-64507/2-A	Lab Control Sample Dup	116	94	
ИВ 880-64507/5-A	Method Blank	111	123	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-34316-A-1-C MS	Matrix Spike	137 S1+	115	
380-34316-A-1-D MSD	Matrix Spike Duplicate	132 S1+	111	
880-34317-1	H-1 (0-6")	129	121	
380-34317-2	H-2 (0-6")	160 S1+	148 S1+	
380-34317-3	H-3 (0-6")	132 S1+	124	
380-34317-4	H-4 (0-6")	133 S1+	128	
380-34317-5	H-5 (0-6")	146 S1+	138 S1+	
380-34317-6	H-6 (0-6")	131 S1+	123	
380-34317-7	H-7 (0-6")	134 S1+	127	
380-34317-8	H-8 (0-6")	131 S1+	124	
_CS 880-64532/2-A	Lab Control Sample	117	136 S1+	
_CSD 880-64532/3-A	Lab Control Sample Dup	82	88	
MB 880-64532/1-A	Method Blank	196 S1+	182 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1

SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64507/5-A

Lab Sample ID: LCS 880-64507/1-A

Matrix: Solid

Analysis Batch: 64524

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64507

1

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:01	•
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:01	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:01	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/23 16:59	10/12/23 12:01	
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:01	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/23 16:59	10/12/23 12:01	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepa	red	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	10/11/23	16:59	10/12/23 12:01	1
1,4-Difluorobenzene (Surr)	123		70 - 130	10/11/23	16:59	10/12/23 12:01	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64507

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1141 mg/Kg 114 70 - 130 Toluene 0.100 0.09752 mg/Kg 98 70 - 130 0.100 Ethylbenzene 0.1096 mg/Kg 110 70 - 130 0.200 0.2067 103 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09835 70 - 130 o-Xylene mg/Kg 98

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Matrix: Solid

Analysis Batch: 64524

Analysis Batch: 64524

Lab Sample ID: LCSD 880-64507/2-A

Prep Type: Total/NA Prep Batch: 64507

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1044		mg/Kg		104	70 - 130	9	35
Toluene	0.100	0.09198		mg/Kg		92	70 - 130	6	35
Ethylbenzene	0.100	0.09293		mg/Kg		93	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.1806		mg/Kg		90	70 - 130	13	35
o-Xylene	0.100	0.08517		mg/Kg		85	70 - 130	14	35

LCSD LCSD

Surrogate	%Recovery Qu	alifier Limits
4-Bromofluorobenzene (Surr)	116	70 - 130
1,4-Difluorobenzene (Surr)	94	70 - 130

Lab Sample ID: 880-34317-1 MS

Matrix: Solid

Analysis Batch: 64524

Client Sample ID: H-1 (0-6") Prep Type: Total/NA

Prep Batch: 64507

_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.100	0.1080		mg/Kg		108	70 - 130	
Toluene	<0.00202	U	0.100	0.09138		mg/Kg		91	70 - 130	

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QC Sample Results

Client: Carmona Resources Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1

SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34317-1 MS **Matrix: Solid**

Lab Sample ID: 880-34317-1 MSD

Analysis Batch: 64524

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

Prep Type: Total/NA

Prep Batch: 64507

Sam	ole Sample	Spike	MS	MS				%Rec
Analyte Res	ult Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene <0.000	02 U	0.100	0.09338		mg/Kg		93	70 - 130
m-Xylene & p-Xylene <0.004	03 U	0.200	0.1900		mg/Kg		95	70 - 130
o-Xylene <0.000	02 U	0.100	0.09359		mg/Kg		93	70 - 130
0-Xylene	02 0	0.100	0.09339		mg/rtg		30	70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Prep Type: Total/NA

Prep Batch: 64507

Sample Sample Spike MSD MSD Result Qualifier RPD Limit Analyte babbA Result Qualifier Unit %Rec Limits Benzene <0.00202 U 0.0998 0.09229 mg/Kg 92 70 - 130 16 35 Toluene <0.00202 U 0.0998 0.08541 mg/Kg 86 70 - 130 35 Ethylbenzene <0.00202 U 0.0998 0.08788 88 70 - 130 6 35 mg/Kg <0.00403 U 0.200 0.2014 70 - 130 35 m-Xylene & p-Xylene mg/Kg 101 6 0.0998 <0.00202 U 0.09323 70 - 130 o-Xylene mg/Kg 93 0

MSD MSD

Surrogate	%Recovery 0	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

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

Lab Sample ID: MB 880-64532/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 64524

Analysis Batch: 64515

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64532

	IVID	IAID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/12/23 08:00	10/12/23 08:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/12/23 08:00	10/12/23 08:09	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/12/23 08:00	10/12/23 08:09	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	196	S1+	70 - 130	10/12/23 08:00	10/12/23 08:09	1
o-Terphenyl	182	S1+	70 - 130	10/12/23 08:00	10/12/23 08:09	1

Lab Sample ID: LCS 880-64532/2-A

Matrix: Solid

Analysis Batch: 64515

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 64532

Spike LCS LCS %Rec Added Qualifier Analyte Result Unit %Rec Limits 1000 84 70 - 130 Gasoline Range Organics 843.0 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 878.5 mg/Kg 88 70 - 130

C10-C28)

Client: Carmona Resources

Job ID: 880-34317-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-64532/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 64515

Prep Type: Total/NA

Prep Batch: 64532

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 117 70 - 130 o-Terphenyl 136 S1+ 70 - 130

Lab Sample ID: LCSD 880-64532/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 64515

Prep Type: Total/NA

Prep Batch: 64532

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 798.2 80 70 - 1305 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 772.7 77 mg/Kg 70 - 13013 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 880-34316-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 64515

Prep Type: Total/NA

Prep Batch: 64532

Prep Type: Total/NA

20

Sample Sample Spike MS MS Analyte Result Qualifier hahhA Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 991 946.5 mg/Kg 94 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 60.5 991 1320 mg/Kg 127 70 - 130 C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	137	S1+	70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 880-34316-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

991

Analysis Batch: 64515

Prep Batch: 64532 Sample Sample MSD MSD RPD Spike %Rec Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics <49.9 U 991 919.0 91 20 mg/Kg 70 - 130 (GRO)-C6-C10

1278

mg/Kg

123

70 - 130

Diesel Range Organics (Over

C10-C28)

Analyte

Matrix: Solid

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	111		70 - 130

60.5

Job ID: 880-34317-1 Client: Carmona Resources Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

Client Sample ID: Method Blank

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64568/1-A

Matrix: Solid

Analysis Batch: 64693

Prep Type: Soluble

мв мв Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 10/13/23 17:10

Lab Sample ID: LCS 880-64568/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 64693

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 251.6 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-64568/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 64693

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 251.8 mg/Kg 101 90 - 110

Lab Sample ID: 880-34299-A-11-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 64693

Sample Sample MS MS Spike %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Chloride 282 F1 248 583.8 F1 122 90 - 110 mg/Kg

Lab Sample ID: 880-34299-A-11-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble Matrix: Solid**

Analysis Batch: 64693

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 282 F1 Chloride 248 639.2 F1 mg/Kg 144 90 _ 110

Lab Sample ID: MB 880-64571/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 64698

мв мв

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 10/13/23 17:23

Lab Sample ID: LCS 880-64571/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 64698

LCS LCS %Rec Spike Added Result Qualifier Limits Analyte Unit %Rec Chloride 250 233.3 mg/Kg 93 90 - 110

Lab Sample ID: LCSD 880-64571/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 64698

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 233.6 mg/Kg 93 90 - 110 20

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

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

Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

Client: Carmona Resources Job ID: 880-34317-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-34317-1 MS

Matrix: Solid

Analysis Batch: 64698											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	87.5		248	336.9		ma/Ka		101	90 110		

Lab Sample ID: 880-34317-1 MSD

Matrix: Solid

Analysis Batch: 64698

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	87.5		248	342.7		mg/Kg		103	90 - 110	2	20

QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1 SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-1	H-1 (0-6")	Total/NA	Solid	5035	
880-34317-2	H-2 (0-6")	Total/NA	Solid	5035	
880-34317-3	H-3 (0-6")	Total/NA	Solid	5035	
880-34317-4	H-4 (0-6")	Total/NA	Solid	5035	
880-34317-5	H-5 (0-6")	Total/NA	Solid	5035	
880-34317-6	H-6 (0-6")	Total/NA	Solid	5035	
880-34317-7	H-7 (0-6")	Total/NA	Solid	5035	
880-34317-8	H-8 (0-6")	Total/NA	Solid	5035	
MB 880-64507/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64507/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64507/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34317-1 MS	H-1 (0-6")	Total/NA	Solid	5035	
880-34317-1 MSD	H-1 (0-6")	Total/NA	Solid	5035	

Analysis Batch: 64524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-1	H-1 (0-6")	Total/NA	Solid	8021B	64507
880-34317-2	H-2 (0-6")	Total/NA	Solid	8021B	64507
880-34317-3	H-3 (0-6")	Total/NA	Solid	8021B	64507
880-34317-4	H-4 (0-6")	Total/NA	Solid	8021B	64507
880-34317-5	H-5 (0-6")	Total/NA	Solid	8021B	64507
880-34317-6	H-6 (0-6")	Total/NA	Solid	8021B	64507
880-34317-7	H-7 (0-6")	Total/NA	Solid	8021B	64507
880-34317-8	H-8 (0-6")	Total/NA	Solid	8021B	64507
MB 880-64507/5-A	Method Blank	Total/NA	Solid	8021B	64507
LCS 880-64507/1-A	Lab Control Sample	Total/NA	Solid	8021B	64507
LCSD 880-64507/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64507
880-34317-1 MS	H-1 (0-6")	Total/NA	Solid	8021B	64507
880-34317-1 MSD	H-1 (0-6")	Total/NA	Solid	8021B	64507

Analysis Batch: 64669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-1	H-1 (0-6")	Total/NA	Solid	Total BTEX	
880-34317-2	H-2 (0-6")	Total/NA	Solid	Total BTEX	
880-34317-3	H-3 (0-6")	Total/NA	Solid	Total BTEX	
880-34317-4	H-4 (0-6")	Total/NA	Solid	Total BTEX	
880-34317-5	H-5 (0-6")	Total/NA	Solid	Total BTEX	
880-34317-6	H-6 (0-6")	Total/NA	Solid	Total BTEX	
880-34317-7	H-7 (0-6")	Total/NA	Solid	Total BTEX	
880-34317-8	H-8 (0-6")	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 64515

Released to Imaging: 12/11/2023 1:08:13 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-1	H-1 (0-6")	Total/NA	Solid	8015B NM	64532
880-34317-2	H-2 (0-6")	Total/NA	Solid	8015B NM	64532
880-34317-3	H-3 (0-6")	Total/NA	Solid	8015B NM	64532
880-34317-4	H-4 (0-6")	Total/NA	Solid	8015B NM	64532
880-34317-5	H-5 (0-6")	Total/NA	Solid	8015B NM	64532
880-34317-6	H-6 (0-6")	Total/NA	Solid	8015B NM	64532

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QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1 SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 64515 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-7	H-7 (0-6")	Total/NA	Solid	8015B NM	64532
880-34317-8	H-8 (0-6")	Total/NA	Solid	8015B NM	64532
MB 880-64532/1-A	Method Blank	Total/NA	Solid	8015B NM	64532
LCS 880-64532/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64532
LCSD 880-64532/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64532
880-34316-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	64532
880-34316-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64532

Prep Batch: 64532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-1	H-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-34317-2	H-2 (0-6")	Total/NA	Solid	8015NM Prep	
880-34317-3	H-3 (0-6")	Total/NA	Solid	8015NM Prep	
880-34317-4	H-4 (0-6")	Total/NA	Solid	8015NM Prep	
880-34317-5	H-5 (0-6")	Total/NA	Solid	8015NM Prep	
880-34317-6	H-6 (0-6")	Total/NA	Solid	8015NM Prep	
880-34317-7	H-7 (0-6")	Total/NA	Solid	8015NM Prep	
880-34317-8	H-8 (0-6")	Total/NA	Solid	8015NM Prep	
MB 880-64532/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64532/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64532/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34316-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34316-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-1	H-1 (0-6")	Total/NA	Solid	8015 NM	
880-34317-2	H-2 (0-6")	Total/NA	Solid	8015 NM	
880-34317-3	H-3 (0-6")	Total/NA	Solid	8015 NM	
880-34317-4	H-4 (0-6")	Total/NA	Solid	8015 NM	
880-34317-5	H-5 (0-6")	Total/NA	Solid	8015 NM	
880-34317-6	H-6 (0-6")	Total/NA	Solid	8015 NM	
880-34317-7	H-7 (0-6")	Total/NA	Solid	8015 NM	
880-34317-8	H-8 (0-6")	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64568

Lab Sample ID 880-34317-8	Client Sample ID H-8 (0-6")	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-64568/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64568/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64568/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34299-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-34299-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 64571

Lab Sample ID 880-34317-1	Client Sample ID H-1 (0-6")	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
880-34317-2	H-2 (0-6")	Soluble	Solid	DI Leach	
880-34317-3	H-3 (0-6")	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1 SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 64571 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-4	H-4 (0-6")	Soluble	Solid	DI Leach	
880-34317-5	H-5 (0-6")	Soluble	Solid	DI Leach	
880-34317-6	H-6 (0-6")	Soluble	Solid	DI Leach	
880-34317-7	H-7 (0-6")	Soluble	Solid	DI Leach	
MB 880-64571/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64571/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64571/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34317-1 MS	H-1 (0-6")	Soluble	Solid	DI Leach	
880-34317-1 MSD	H-1 (0-6")	Soluble	Solid	DI Leach	

Analysis Batch: 64693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-8	H-8 (0-6")	Soluble	Solid	300.0	64568
MB 880-64568/1-A	Method Blank	Soluble	Solid	300.0	64568
LCS 880-64568/2-A	Lab Control Sample	Soluble	Solid	300.0	64568
LCSD 880-64568/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64568
880-34299-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	64568
880-34299-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64568

Analysis Batch: 64698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-1	H-1 (0-6")	Soluble	Solid	300.0	64571
880-34317-2	H-2 (0-6")	Soluble	Solid	300.0	64571
880-34317-3	H-3 (0-6")	Soluble	Solid	300.0	64571
880-34317-4	H-4 (0-6")	Soluble	Solid	300.0	64571
880-34317-5	H-5 (0-6")	Soluble	Solid	300.0	64571
880-34317-6	H-6 (0-6")	Soluble	Solid	300.0	64571
880-34317-7	H-7 (0-6")	Soluble	Solid	300.0	64571
MB 880-64571/1-A	Method Blank	Soluble	Solid	300.0	64571
LCS 880-64571/2-A	Lab Control Sample	Soluble	Solid	300.0	64571
LCSD 880-64571/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64571
880-34317-1 MS	H-1 (0-6")	Soluble	Solid	300.0	64571
880-34317-1 MSD	H-1 (0-6")	Soluble	Solid	300.0	64571

Eurofins Midland

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Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Client Sample ID: H-1 (0-6") Date Collected: 10/10/23 00:00

Date Received: 10/11/23 14:19

Job ID: 880-34317-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-34317-1

Matrix: Solid

Batch		Batch		Dil I	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 12:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64669	10/12/23 12:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			64657	10/12/23 12:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 12:46	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	64571	10/12/23 14:18	AG	EET MID
Soluble	Analysis	300.0		1	50 ml	50 ml	64698	10/13/23 18:06	CH	FET MID

Lab Sample ID: 880-34317-2 Client Sample ID: H-2 (0-6") Date Collected: 10/10/23 00:00 Matrix: Solid

Date Received: 10/11/23 14:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 12:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64669	10/12/23 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			64657	10/12/23 13:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 13:08	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	64571	10/12/23 14:18	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64698	10/13/23 18:22	CH	EET MID

Client Sample ID: H-3 (0-6") Lab Sample ID: 880-34317-3 Date Collected: 10/10/23 00:00 **Matrix: Solid**

Date Received: 10/11/23 14:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 13:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64669	10/12/23 13:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			64657	10/12/23 13:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 13:30	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	64571	10/12/23 14:18	AG	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	64698	10/13/23 18:27	CH	EET MID

Client Sample ID: H-4 (0-6") Lab Sample ID: 880-34317-4 Date Collected: 10/10/23 00:00 **Matrix: Solid**

Date Received: 10/11/23 14:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 13:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64669	10/12/23 13:32	SM	EET MID

Eurofins Midland

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

Date Collected: 10/10/23 00:00

Date Received: 10/11/23 14:19

Job ID: 880-34317-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-34317-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			64657	10/12/23 13:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 13:52	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	64571	10/12/23 14:18	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64698	10/13/23 18:32	CH	EET MID

Lab Sample ID: 880-34317-5 Client Sample ID: H-5 (0-6") Date Collected: 10/10/23 00:00 **Matrix: Solid**

Date Received: 10/11/23 14:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 13:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64669	10/12/23 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			64657	10/12/23 14:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 14:14	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	64571	10/12/23 14:18	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64698	10/13/23 18:37	CH	EET MID

Client Sample ID: H-6 (0-6") Lab Sample ID: 880-34317-6 Date Collected: 10/10/23 00:00 **Matrix: Solid**

Date Received: 10/11/23 14:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 14:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64669	10/12/23 14:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			64657	10/12/23 14:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 14:36	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	64571	10/12/23 14:18	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64698	10/13/23 18:52	CH	EET MID

Lab Sample ID: 880-34317-7 Client Sample ID: H-7 (0-6")

Date Collected: 10/10/23 00:00 Date Received: 10/11/23 14:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 14:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64669	10/12/23 14:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			64657	10/12/23 14:58	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	9.91 g 1 uL	10 mL 1 uL	64532 64515	10/12/23 10:42 10/12/23 14:58	TKC SM	EET MID EET MID

Eurofins Midland

Matrix: Solid

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Lab Chronicle

Client: Carmona Resources

Date Received: 10/11/23 14:19

Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1

SDG: Lea County, New Mexico

Client Sample ID: H-7 (0-6") Lab Sample ID: 880-34317-7 Date Collected: 10/10/23 00:00

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 64571 Leach 5.02 g 50 mL 10/12/23 14:18 AG **EET MID** 300.0 10/13/23 18:57 Soluble Analysis 1 50 mL 50 mL 64698 СН **EET MID**

Client Sample ID: H-8 (0-6") Lab Sample ID: 880-34317-8

Date Collected: 10/10/23 00:00 **Matrix: Solid**

Date Received: 10/11/23 14:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 14:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64669	10/12/23 14:54	SM	EET MIC
Total/NA	Analysis	8015 NM		1			64657	10/12/23 15:42	SM	EET MIC
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 15:42	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	64568	10/12/23 14:13	AG	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	64693	10/15/23 14:50	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources Job ID: 880-34317-1 Project/Site: Raptor West 3 State #2H SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date		
Texas	NELAF)	T104704400-23-26	06-30-24		
The following analytes	are included in this report bu	it the laboratory is not certif	ied by the governing authority. This lis	t may include analyte		
,	pes not offer certification.	it the laboratory to flot cortain	iou zy mo governing damenty. This no	t may molado analyte		
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for which the agency de	pes not offer certification.	•	, , ,			

Eurofins Midland

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Method Summary

Client: Carmona Resources

Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1

SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

H-8 (0-6")

Sample Summary

Client: Carmona Resources

880-34317-8

Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1 SDG: Lea County, New Mexico

10/11/23 14:19

10/10/23 00:00

3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34317-1	H-1 (0-6")	Solid	10/10/23 00:00	10/11/23 14:19
880-34317-2	H-2 (0-6")	Solid	10/10/23 00:00	10/11/23 14:19
880-34317-3	H-3 (0-6")	Solid	10/10/23 00:00	10/11/23 14:19
880-34317-4	H-4 (0-6")	Solid	10/10/23 00:00	10/11/23 14:19
880-34317-5	H-5 (0-6")	Solid	10/10/23 00:00	10/11/23 14:19
880-34317-6	H-6 (0-6")	Solid	10/10/23 00:00	10/11/23 14:19
880-34317-7	H-7 (0-6")	Solid	10/10/23 00:00	10/11/23 14:19

Solid

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Received by OCD: 12/5/2023 2:15:07 PM

10/16/2023

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880-34317 Chain of Custody

Project Manager	Clinton Merrit				Bill to (if	different)		Melod	lie San	iari		***************************************			٦Г			1	Nork C	valar i	Cammant-	lof1				
Company Name	Carmona Res				Company			1	***************************************						┨ <u>├</u>						Comments					
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City, State ZIP	Midland TX 7										ntry Blvd		***************************************		- 1		-		1 (12)	Па-	иот Пъ	F7 F				
Phone	IVIIUIAIIU IA I	3701			City Stat			***************************************	on TX	77024					- 1						/UST RRP	Level IV				
none	<u> </u>			Email	msanjar	1(@)mara	thonoil c	<u>om</u>								eliverat	oles I	EDD [ADaP	T ☐ Other					
Project Name	Rap	tor West 3 Sta	te #2H	Turn	Around							ρ	NAL	YSIS R	EQUI	ST					Preserva	ative Codes				
Project Number		2154	***************************************	✓ Routine	Rus	h	Pres. Code														None NO	DI Water H₂C				
Project Location	Lea	County New I	Mexico	Due Date	5 0	lay															Cool Cool	MeOH Me				
Sampler's Name		ССМ					1		+ MRO)						1						HCL HC	HNO ₃ HN				
PO #:	<u> </u>	·					<u>8</u>		+ 10												H ₂ SO ₄ H ₂	NaOH Na				
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eceived Intact:		es) No	Thermometer ID		716		aran	802	ģ.	Je 3(- 1						NaHSO4 NABI	S				
ooler Custody Seal		No (NA)	Correction Facto		+.2						1 6	BTEX 8021B	(GR	Chloride 300 0		l									Na ₂ S ₂ O ₃ NaS0	D_3
sample Custody Sea	ils Yes	No (V/A)	Temperature Rea		1-7.6		1	m	15M	ਹ											Zn Acetate+Na	OH Zn				
otal Containers		· · · · · · · · · · · · · · · · · · ·	Corrected Tempe	erature	<u> </u>	4			TPH 8015M (GRO												NaOH+Ascorbi	c Acid SAPC				
Sample Ider	***************************************	Date	Time	Soil	Water	Grab/ Comp	# of Cont		TPI												Sample	Comments				
H-1 (0		10/10/2023		X		G	1	Х	Х	Х								-								
H-2 (0		10/10/2023		Х		G	1	X	Х	Х																
H-3 (0		10/10/2023		Х		G	1	Х	Х	Х																
H-4 (0	-6")	10/10/2023		Х		G	1	Х	Х	Х																
H-5 (0	-6")	10/10/2023		Х		G	1	Х	Х	Х										1						
H-6 (0	-6")	10/10/2023		Х		G	1	Х	Х	Х									1							
H-7 (0	-6")	10/10/2023		Х		G	1	Х	Х	Х																
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Relinquished by (Signature)

Date/Time

Received by (Signature)

Date/Time

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34317-1

SDG Number: Lea County, New Mexico

OBO Hambor. Loa Coarry, How Moxico

Login Number: 34317
List Source: Eurofins Midland
List Number: 1

Creator: Rodriguez, Leticia

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

1

APPENDIX F

CARMONA RESOURCES



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Candfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

_

Stony Spot

Very Stony Spot

Spoil Area

Wet Spot

∆ Other

Special Line Features

Water Features

Streams and Canals

Transportation

+++ Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

900

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
TE	Tonuco fine sand, hummocky	1.5	25.1%
TF	Tonuco loamy fine sand, 0 to 3 percent slopes	4.6	74.9%
Totals for Area of Interest		6.1	100.0%

Lea County, New Mexico

TE—Tonuco fine sand, hummocky

Map Unit Setting

National map unit symbol: dmrg Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 13 inches Mean annual air temperature: 59 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Tonuco and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Tonuco

Setting

Landform: Plains, ridges

Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Rise

Down-slope shape: Linear, convex

Across-slope shape: Linear

Parent material: Eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 12 inches: fine sand

AC - 12 to 17 inches: loamy fine sand Bkm - 17 to 27 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 6 to 20 inches to petrocalcic

Drainage class: Excessively drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 2 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Very low (about 1.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified



Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: R077DY046TX - Sandy 12-17" PZ

Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 5 percent

Ecological site: R070BD002NM - Shallow Sandy

Hydric soil rating: No

Cacique

Percent of map unit: 3 percent

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Maljamar

Percent of map unit: 3 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Dune land

Percent of map unit: 2 percent

Hydric soil rating: No

Palomas

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 20, Sep 6, 2023

Lea County, New Mexico

TF—Tonuco loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw3c Elevation: 3,280 to 4,460 feet

Mean annual precipitation: 10 to 16 inches Mean annual air temperature: 59 to 64 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Tonuco and similar soils: 70 percent Minor components: 30 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Tonuco

Setting

Landform: Ridges, plains

Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits

Typical profile

A - 0 to 12 inches: loamy fine sand Bw - 12 to 17 inches: loamy sand

Bkkm - 17 to 39 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 12 to 20 inches to petrocalcic

Drainage class: Excessively drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 2 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

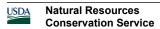
mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified



Map Unit Description: Tonuco loamy fine sand, 0 to 3 percent slopes---Lea County, New Mexico

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: R077DY048TX - Shallow 12-17" PZ

Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 15 percent Landform: Ridges, plains

Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R070BD002NM - Shallow Sandy

Hydric soil rating: No

Berino

Percent of map unit: 10 percent Landform: Ridges, plains

Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Cacique

Percent of map unit: 5 percent Landform: Ridges, plains

Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 20, Sep 6, 2023

NMSLO Seed Mix

Loamy (L)

LOAMY (L) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX	
Grasses:				
Black grama	VNS, Southern	1.0	D	
Blue grama	Lovington	1.0	D	
Sideoats grama	Vaughn, El Reno	4.0	F	
Sand dropseed	VNS, Southern	2.0	S	
Alkali sacaton	VNS, Southern	1.0		
Little bluestem	Cimarron, Pastura	1.5	F	
Forbs:				
Firewheel (Gaillardia)	VNS, Southern	1.0	D	
			_	
Shrubs:				
Fourwing saltbush	Marana, Santa Rita	1.0	D	
Common winterfat	VNS, Southern	0.5	F	
	Total PLS/acre	18.0		

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require
 other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.



APPENDIX G





1. IDENTIFICATION OF THE SUBSTANCE

Product identifier

Product Name: Micro-Blaze® Emergency Liquid Spill Control

Product Code: MBELSC

Recommended use of the chemical and restrictions on use

Recommended Use: Bioremediation/cleaning

Uses advised against: Please refer to Product Data Sheet

Details of the supplier of the Safety Data Sheet

Contact Manufacturer: Verde Environmental, Inc.

9223 Eastex Freeway Houston, TX USA 77093

Information Telephone Number: 1-713-691-6468

Emergency Telephone Number: 1-800-424-9300 (Chemtrec) 24 hours every day

2. HAZARDS IDENTIFICATION

Classification

Classification of the product is in accordance with 29CFR 1910.1200

Acute toxicity – Oral	Category 5
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1

Label elements

Emergency Overview

Warning

Hazard statements

May cause an allergic skin reaction Causes serious eye irritation May be harmful if swallowed



Appearance: Opaque Physical State: Liquid Odor: Slight fermentation odor

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<u>Precautionary Statements - Prevention</u>

Wear eye/face protection. Wear protective gloves. Avoid breathing dust/fume/gas/mist/vapors/spray.

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact Eyes

lenses, if present and easy to do. Continue rinsing

Skin IF ON SKIN: Gently wash with plenty of soap and water

Inhalation IF INHALED: If breathing is difficult, remove victim to fresh air and keep at

rest in a position comfortable for breathing

Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell

Precautionary Statements - Storage

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F

Precautionary Statements – Disposal

Dispose of unused product and container in accordance with all applicable local and regional requirements

Hazards not otherwise classified (HNOC)

Not applicable

Other information

Health Hazard	1
Fire Hazard	0
Reactivity	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	Weight - %
Water and Proprietary Viable Spore Forming Cultures	> 80
Proprietary blend of Ethoxylated Alcohols and other Organic materials	3-9
Additives	2 - 5

4. FIRST AID MEASURES

First aid measures

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Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes

Skin Contact Wash off immediately with soap and plenty of water

Inhalation Move to fresh air

Ingestion Clean mouth with water and afterwards drink plenty of water

Most important symptoms and effects, both acute and delayed

Main symptoms No information available

Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Specific Hazards Arising from the Chemical

No information available

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation

Environmental precautions

Environmental Precautions It is not anticipated to be hazardous for the environment

Methods and material for containment and cleaning up

Methods for Clean-up Pick up and transfer to properly labeled containers

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice

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Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place

Packaging Material There could be many packaging types for the product. The details are

given in other Verde Environmental, Inc. documents

Incompatible Materials Strong acids or alkali compounds and strong oxidizing agents may

inactivate biological cultures

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Individual protection measures, such as personal protective equipment

Eye Protection Avoid contact with eyes

Skin and body protection No special technical protective measures are necessary

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practices

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid **Appearance** Tan, Opaque Odor Pleasant (perfume) **Odor Threshold** No information available

Property Values 7.0 - 8.0pН

Melting/freezing point freeze at 0°C/32°F **Evaporation rate VALUE** No information available

Not flammable Flammability (solid, gas)

Burning rate 100mm VALUE No information available Vapor pressure No information available Vapor density No information available Specific gravity No information available

Water solubility 99%

Solubility in other solvents No information available Partition Coefficient (n-octanol/water) No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Viscosity of product No information available No information available Viscosity

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Explosive propertiesNo information available **Oxidizing properties**No information available

Other Information

Softening PointNo information availableVOC ContentNo information availableDensityNo information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong acids or alkali compounds and strong oxidizing agents may inactivate biological cultures

Hazardous Decomposition Products

No information available

11. Toxicological Information

Information on likely routes of exposure

Inhalation There is no data available for this product

Eye contact Avoid contact with eyes. Severely irritating to eyes

Skin contact Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons.

Ingestion Ingestion may cause stomach discomfort

Information on toxicological effects

Symptoms No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Date Issued: 22nd January, 2021 Page 5 of 8



Sensitization May cause sensitization of susceptible persons

Mutagenic EffectsNo information availableReproductive EffectsNo information availableSpecific target organ systemic toxicityNo information availableAspiration hazardNo information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Dahnia, acute	Algae, acute	Fish, acute
Proprietary blend of Ethoxylated	EC50 (48 hours): 5-10	EC50 (72 hours): 10- 100 mg/l	LC50: 1-10 mg/l
Alcohols	mg/l	-	

Persistence/Degradability

The organic components of the product are biodegradable.

Bioaccumulation/Accumulation

Chemical Name	Persistance and degradability	log Pow
Proprietary blend of Ethoxylated	Readily biodegradable (OECD TG	<0
Alcohols	301B	

Other adverse effects

No known effect

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Dispose of contents/container in accordance with local regulation

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste

disposal

14. TRANSPORT INFORMATION

Transport regulations: No dangerous goods according to transport regulations

No special precautions required

Transport hazard class(es): N/A

Packing group: N/A

Environmental hazards: N/A

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15. REGULATORY INFORMATION

International Inventories

Legend:

TSCA – United States Toxic Substances Control Act Section 8(b) Inventory *DSL/NDSL* – Canadian Domestic Substances List/Non-Domestic Substances List

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and 40 CFR Part 372.

SARA 311/312 Hazardous

Categorization

Acute Health HazardNoChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

State Right-to-Know

U.S. EPA Label Information

EPA Pesticide Registration Number

Not Applicable

Canada

WHMIS Statement This product has been classified in accordance with the hazard criteria of the

Controlled Products Regulations (CPR) and the SDS contains all the information

required by the CPR.

Date Issued: 22nd January, 2021 Page 7 of 8



16. OTHER INFORMATION

Revision date: 01.22.2021 **Revision Summary**

No information available

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Furthermore, as the conditions of use are beyond the control of Verde Environmental, Inc., it is the responsibility of the customer to determine the conditions of safe use of this preparation.

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<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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

QUESTIONS

Action 290915

QUESTIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	290915
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2327550031
Incident Name	NAPP2327550031 RAPTOR 2H @ 30-025-41186
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-41186] RAPTOR WEST 3 STATE #002H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RAPTOR 2H
Date Release Discovered	10/02/2023
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release			
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.			
Crude Oil Released (bbls) Details	Cause: Equipment Failure Separator Crude Oil Released: 137 BBL Recovered: 130 BBL Lost: 7 BBL.		
Produced Water Released (bbls) Details	Not answered.		
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.		
Condensate Released (bbls) Details	Not answered.		
Natural Gas Vented (Mcf) Details	Not answered.		
Natural Gas Flared (Mcf) Details	Not answered.		
Other Released Details	Not answered.		
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	The source of the leak has been isolated and standing fluids are being recovered from the separator's secondary containment. We have a preliminary volume of 163 bbl. of fluid within the lined, secondary containment; 4.97 bbl. of dark overspray on the pad and approx 1.88 bbl. of light overspray in the pasture to the North of the pad. These preliminary volumes are based on dimensions of impact and are subject to change.		

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<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 290915

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	IONS (continued)
Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	i lation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
	Name: Isaac Castro

Email: icastro@marathonoil.com

Date: 12/04/2023

I hereby agree and sign off to the above statement

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

QUESTIONS, Page 3

Action 290915

QUESTIONS (continued)

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	290915
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 500 and 1000 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)	
Any other fresh water well or spring	Between ½ and 1 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Greater than 5 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	None	
A 100-year floodplain	Greater than 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	Yes	

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provide	ed to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamin	nation associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, ir	n milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	1240
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1930
GRO+DRO (EPA SW-846 Method 8015M)	1790
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes comp which includes the anticipated timelines for beginning and completing the remediation.	pleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	01/18/2024
On what date will (or did) the final sampling or liner inspection occur	01/18/2024
On what date will (or was) the remediation complete(d)	01/30/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	67737
What is the estimated volume (in cubic yards) that will be remediated	1491
These estimated dates and measurements are recognized to be the best guess or calculation	at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally adjusted	d in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 290915

Action 290915

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	290915
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS (continued)

QUESTIONS

Remediation Plan (continued)			
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.			
his remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:			
(Select all answers below that apply.)			
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes		
Which OCD approved facility will be used for off-site disposal	R360 Artesia LLC LANDFARM [fEEM0112340644]		
OR which OCD approved well (API) will be used for off-site disposal	Not answered.		
OR is the off-site disposal site, to be used, out-of-state	Not answered.		
OR is the off-site disposal site, to be used, an NMED facility	Not answered.		
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.		
(In Situ) Soil Vapor Extraction	Not answered.		
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.		
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Yes		
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.		
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.		
OTHER (Non-listed remedial process)	Not answered.		

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement

Name: Isaac Castro

Email: icastro@marathonoil.com

Date: 12/05/2023

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 290915

QUESTIONS (continued)	QL	JEST	IONS	(continued)
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Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	290915
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation. Requesting a deferral of the remediation closure due date with the approval of this No submission

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

QUESTIONS, Page 6

Action 290915

Operator: MARATHON OIL PERMIAN LLC		OGRID: 372098	
	990 Town & Country Blvd. Houston, TX 77024	Action Number: 290915	
		Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
	QUESTIONS		
	Sampling Event Information		
	Last sampling notification (C-141N) recorded	{Unavailable.}	
	Remediation Closure Request		
	Only answer the questions in this group if seeking remediation closure for this release because all re	mediation steps have been completed.	
	Requesting a remediation closure approval with this submission	No	

QUESTIONS (continued)

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 290915

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	290915
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created	Condition	Condition Date
Ву		
nvelez	Remediation plan approved. Remediation Due date updated to March 11, 2024.	12/11/2023