



SITE INFORMATION

Work Plan
Mesa Verde SWD
Incident # NAPP2410737986
Eddy County, New Mexico
Unit O Sec 13 T24S R31E
32.212784°, -103.732059°

Produced Water Release

Point of Release: Equipment failure on the expansion joint where it bolts to the water jacket.

Release Date: 04/16/2024

Volume Released: 80 Barrels of Produced Water

Volume Recovered: 65 Barrels of Produced Water

CARMONA RESOURCES



Prepared for:
NGL Energy Partners, LLC
865 North Albion Street
Denver, CO 80220

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



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August 15, 2024

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

**Re: Work Plan
Mesa Verde SWD (04.16.2024)
NGL Water Solutions Permian, LLC
Incident # NAPP2410737986
Site Location: Unit O Sec 13 T24S R31E
(Lat 32.212784°, Long -103.732059°)
Eddy County, New Mexico**

Mr. Bratcher:

On behalf of NGL Energy Partners (NGL), Carmona Resource, LLC has prepared this letter to document site assessment activities for the Mesa Verde SWD (04.16.2024). The site is located at 32.212784°, -103.732059° within Unit O, S13, T24S, R31E in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on April 16, 2024, due to equipment failure on the expansion join where it bolts to the water jacket. It resulted in the release of approximately eighty (80) barrels of produced water, and approximately sixty-five (65) barrels of produced water were recovered. The impacted area on the pad is shown in 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, one known water source is within a 0.50-mile radius of the location. The nearest groundwater determination bore is located approximately 0.03 miles southeast of the site in S13, T24S, R31E and was drilled on August 12, 2024. The determination bore was drilled to a depth of 55' below the ground surface (ft bgs). The determination bore was revisited after 72 hours, and no groundwater was found during that time. A copy of the associated NMOSE Well Record and Log 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: 2,500 mg/kg (GRO + DRO + MRO).
- TPH: 1,000 mg/kg (GRO + DRO).
- Chloride: 10,000 mg/kg.

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4.0 Site Assessment Activities

Horizontal Assessment

On April 30, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of five (5) horizontal sample points (H-1 through H-5) were advanced to depths ranging from surface to 0.5' bgs outside of the release area to evaluate the horizontal extent while repairs and ongoing oilfield operations took place. See Figure 3 for the soil sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Trenching Activities

On June 17, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of four (4) test trenches (T-1 through T-4) were advanced to depths ranging from surface to 6.0' bgs inside the release area to evaluate the vertical extent. See Figure 3 for the soil sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

The sampling results are summarized in Table 1. See Figure 3 for the sample locations.

5.0 Proposed Work Plan

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

- The areas of T-1, T-2, and T-3 will be excavated to a depth of 1.5' bgs and backfilled with clean material to grade. See Figure 4 for a proposed excavation map.
- An estimated 510 cubic yards will be removed and hauled to the nearest disposal based on the maximum depth.
- A variance is requested per 19.15.29.14. An NMAC, Five-point composite bottom floor hole, and sidewall samples will be collected every 500 square feet to represent the release area.
- Once the site activities and excavation are complete, the areas will be backfilled with clean material to surface grade. The remediation will be implemented 90 days after the work plan is approved.

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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

Ashton Thielke
Sr. Project Manager

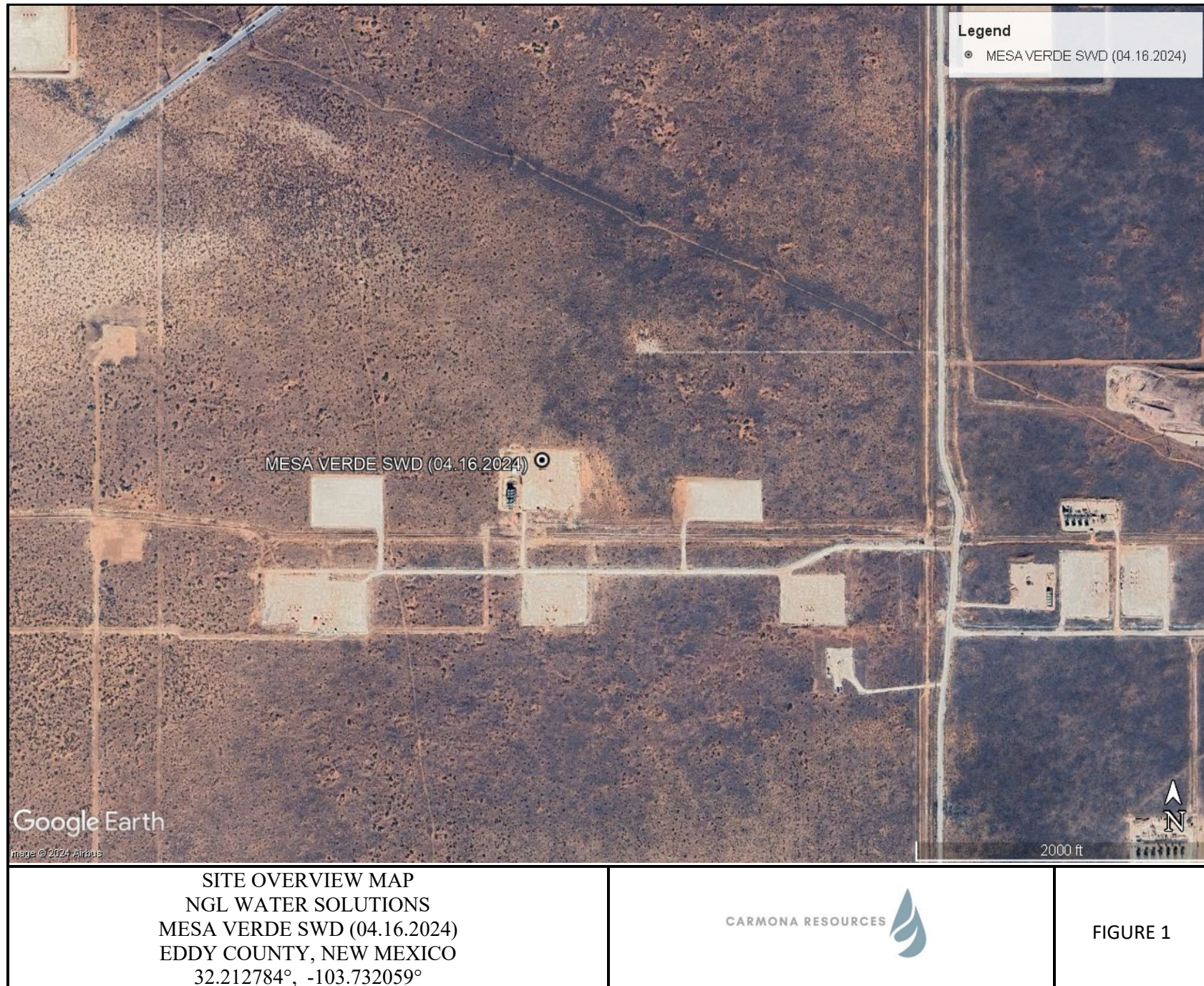
Conner Moehring
Sr. Project Manager

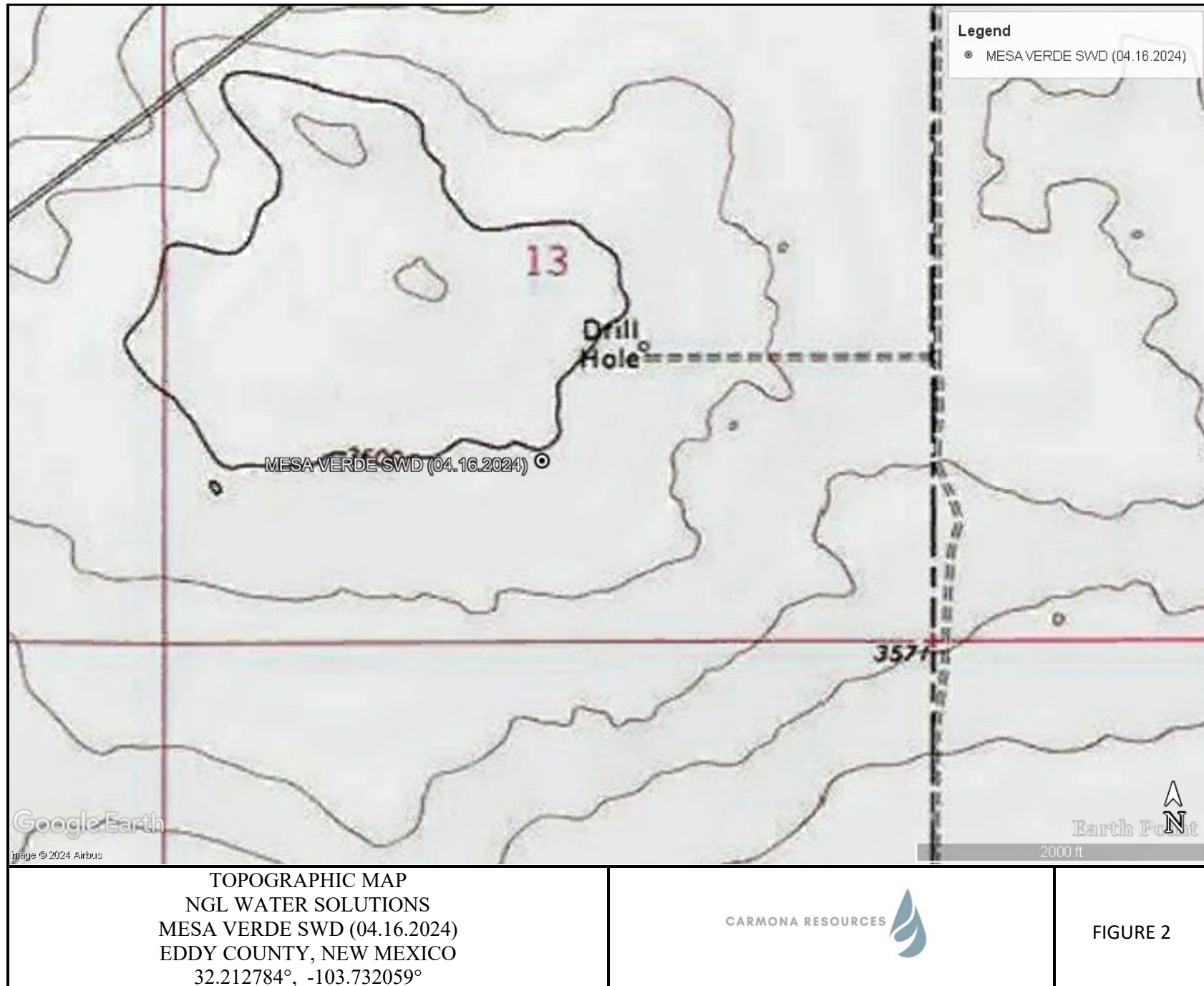
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432.813.1992

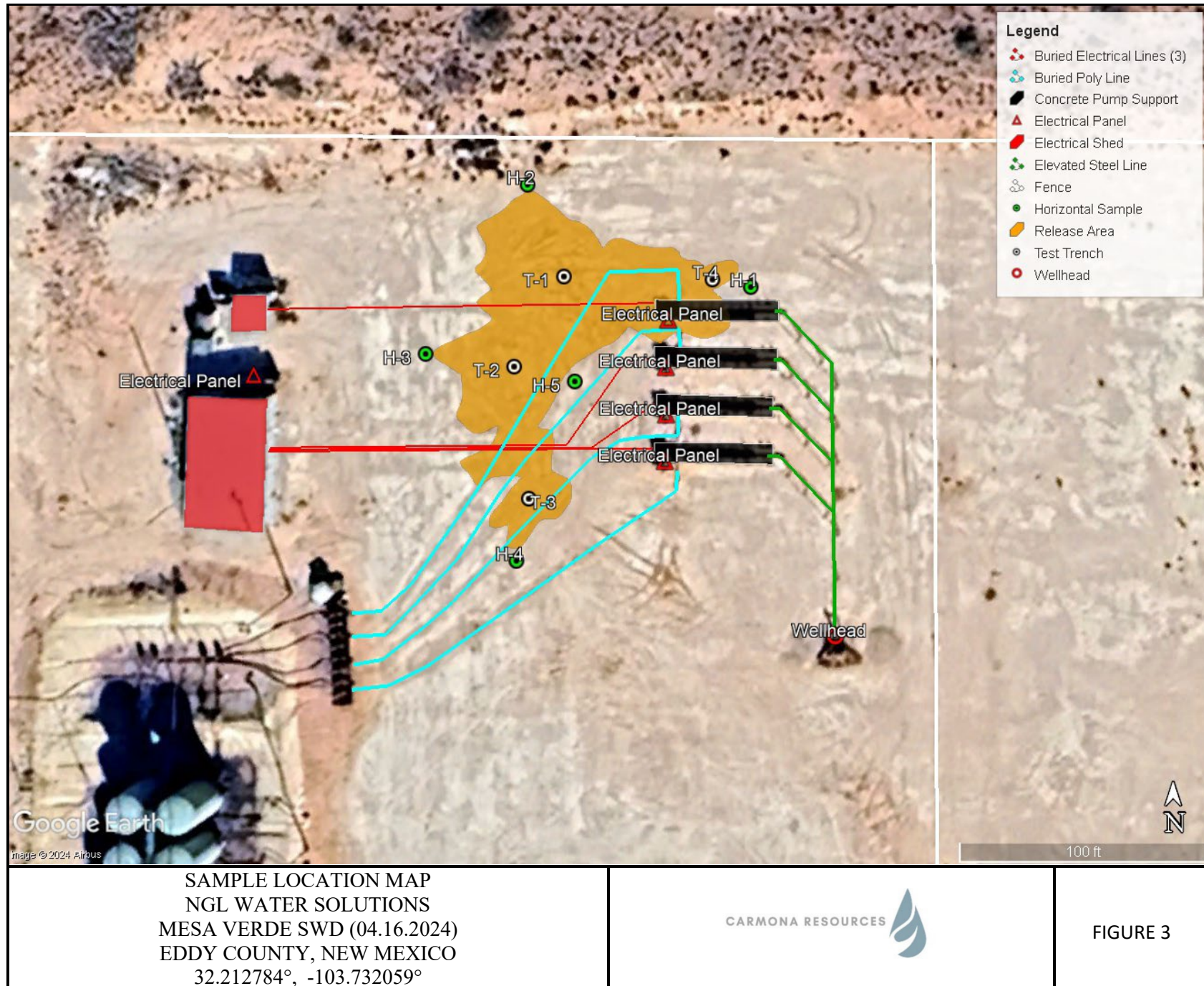
FIGURES

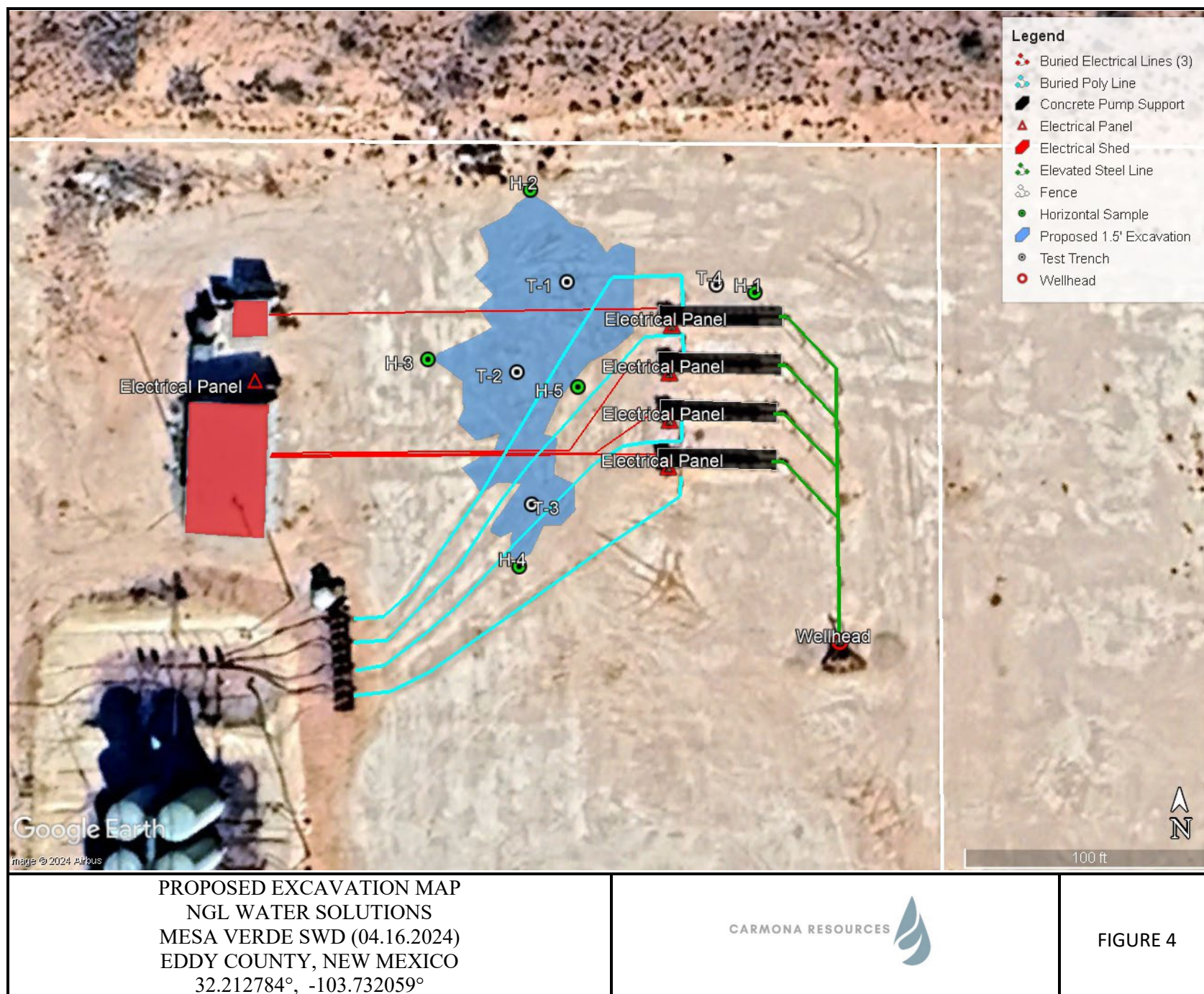
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APPENDIX A

CARMONA RESOURCES



Table 1
NGL Water Solutions
Mesa Verde SWD #3 (4.16.24)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
T-1	6/17/2024	0-1.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	20,300
	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,350
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	2,090
	"	3.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,970
	"	4.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	102
	"	5.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	55.8
T-2	6/17/2024	0-1.0	<49.7	149	<49.7	149	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	15,700
	"	1.5	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,040
	"	2.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,820
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	1,870
	"	4.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	344
	"	5.0	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	108
T-3	6/17/2024	0-1.0	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	25,000
	"	1.5	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	925
	"	2.0	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,140
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,830
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	705
	"	5.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	341
T-4	"	6.0	<49.6	<49.6	<49.6	<49.6	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	793
	6/17/2024	0-1.0	<49.6	<49.6	<49.6	<49.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	9,170
	"	1.5	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,950
	"	2.0	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5,850
	"	3.0	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	917
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	160
Regulatory Criteria^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(T) Test Trench

 Proposed Excavation

Table 1
NGL Water Solutions
Mesa Verde SWD #3 (4.16.24)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
H-1	4/30/2024	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	264
H-2	4/30/2024	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	71.6
H-3	4/30/2024	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	10.9
H-4	4/30/2024	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	290
H-5	4/30/2024	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	40.9
Regulatory Criteria ^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(H) Horizontals

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

NGL Energy Partners

Photograph No. 1

Facility: Mesa Verde SWD (04.16.2024)

County: Eddy County, New Mexico

Description:

View Northeast, area of T-1.



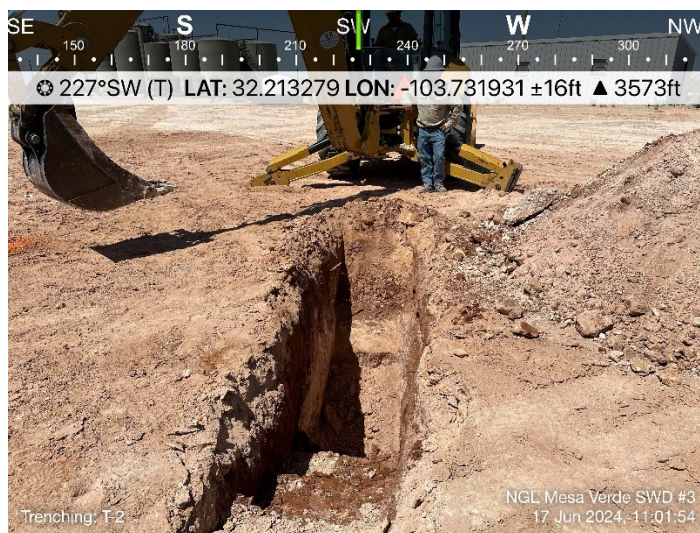
Photograph No. 2

Facility: Mesa Verde SWD (04.16.2024)

County: Eddy County, New Mexico

Description:

View Southwest, area of T-2.



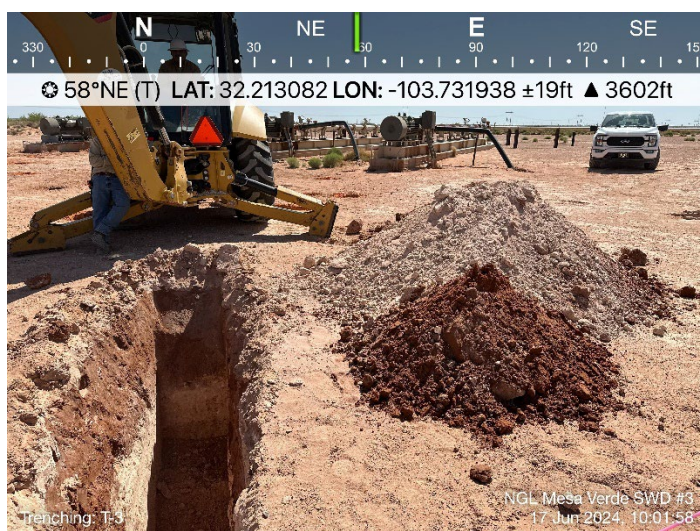
Photograph No. 3

Facility: Mesa Verde SWD (04.16.2024)

County: Eddy County, New Mexico

Description:

View Northeast, area of T-3.



PHOTOGRAPHIC LOG

NGL Energy Partners

Photograph No. 4

Facility: Mesa Verde SWD (04.16.2024)

County: Eddy County, New Mexico

Description:

View East, area of T-4.



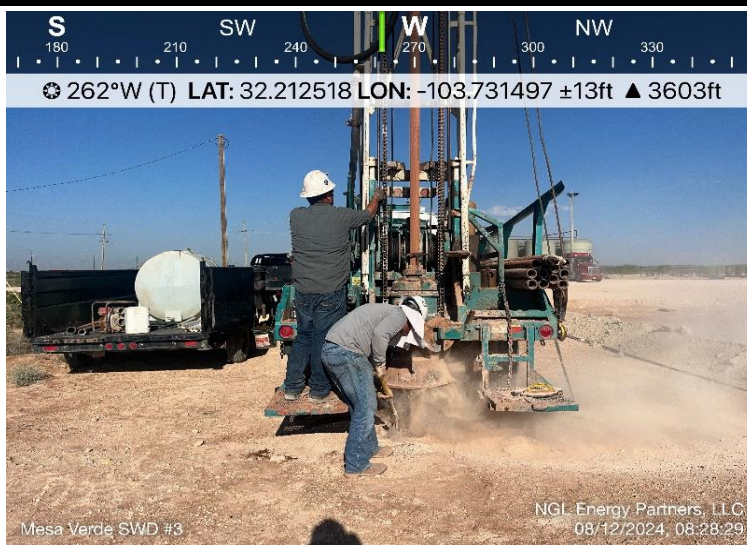
Photograph No. 5

Facility: Mesa Verde SWD (04.16.2024)

County: Eddy County, New Mexico

Description:

View West of the air rotary rig drilling the GWDB to 55'.



Photograph No. 6

Facility: Mesa Verde SWD (04.16.2024)

County: Eddy County, New Mexico

Description:

View Southwest, of the GWDB installed to 55'.



APPENDIX C

CARMONA RESOURCES



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

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

QUESTIONS

Action 333872

QUESTIONS

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID: 372338
	Action Number: 333872
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MESA VERDE SWD
Date Release Discovered	04/16/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Blow Out Pump Produced Water Released: 80 BBL Recovered: 65 BBL Lost: 15 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 333872

QUESTIONS (continued)

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID: 372338
	Action Number: 333872
	Action Type: [NOTIFY] Notification Of Release (NOR)

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 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.

Per Paragraph 4 of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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ACKNOWLEDGMENTS

Action 333872

ACKNOWLEDGMENTS

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID: 372338
	Action Number: 333872
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☒	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☒	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.
☒	I acknowledge the fact that 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.
☒	I acknowledge the fact that, 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.

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CONDITIONS

Action 333872

CONDITIONS

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID: 372338
	Action Number: 333872
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
jvargo	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	4/16/2024



Energy Partners LP

865 N. Albion Street • Suite 400 • Denver • CO • 80220

Phone (303)815-1010 • Fax (303)815-1011

April 16, 2024

RE: **Volume Calculation for Release nAPP2410737986**

Please use the following for a volume calculation for our Mesa Verde SWD release that occurred on April 16, 2024.

80 Barrel released outside Containment. 65 Recovered.

NGL was able to determine the volume by the amount the third-party vacuum trucks were able to suction up, which was 65 bbls. During the recovery process they said they were not able to recover about 20% of the released water, therefore leaving roughly 15 bbls unrecoverable.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Vargo", is written over a horizontal line.

Joseph Vargo
Regulatory Director
(303) 597-5652

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

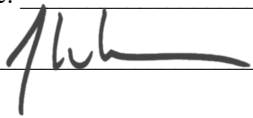
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

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

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

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____
Signature:  _____ Date: _____
email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

APPENDIX D

CARMONA RESOURCES



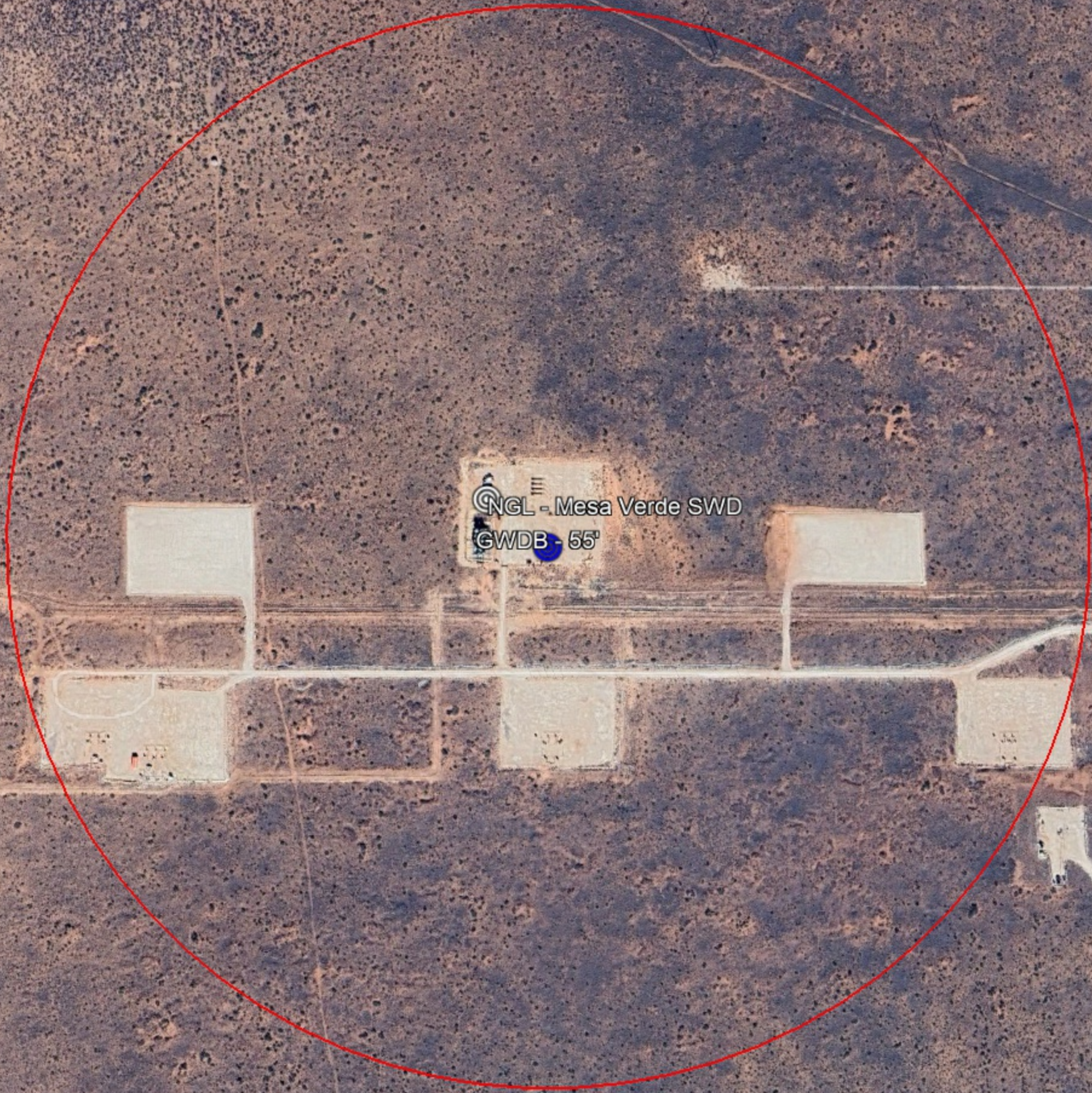
Groundwater

Determiantion Bore Map

NGL
Mesa Verde SWD
Eddy County, New Mexico
32.212784, -103.32059

Legend

- 0.50 Mile Radius
- GWDB - 55'
- NGL - Mesa Verde SWD

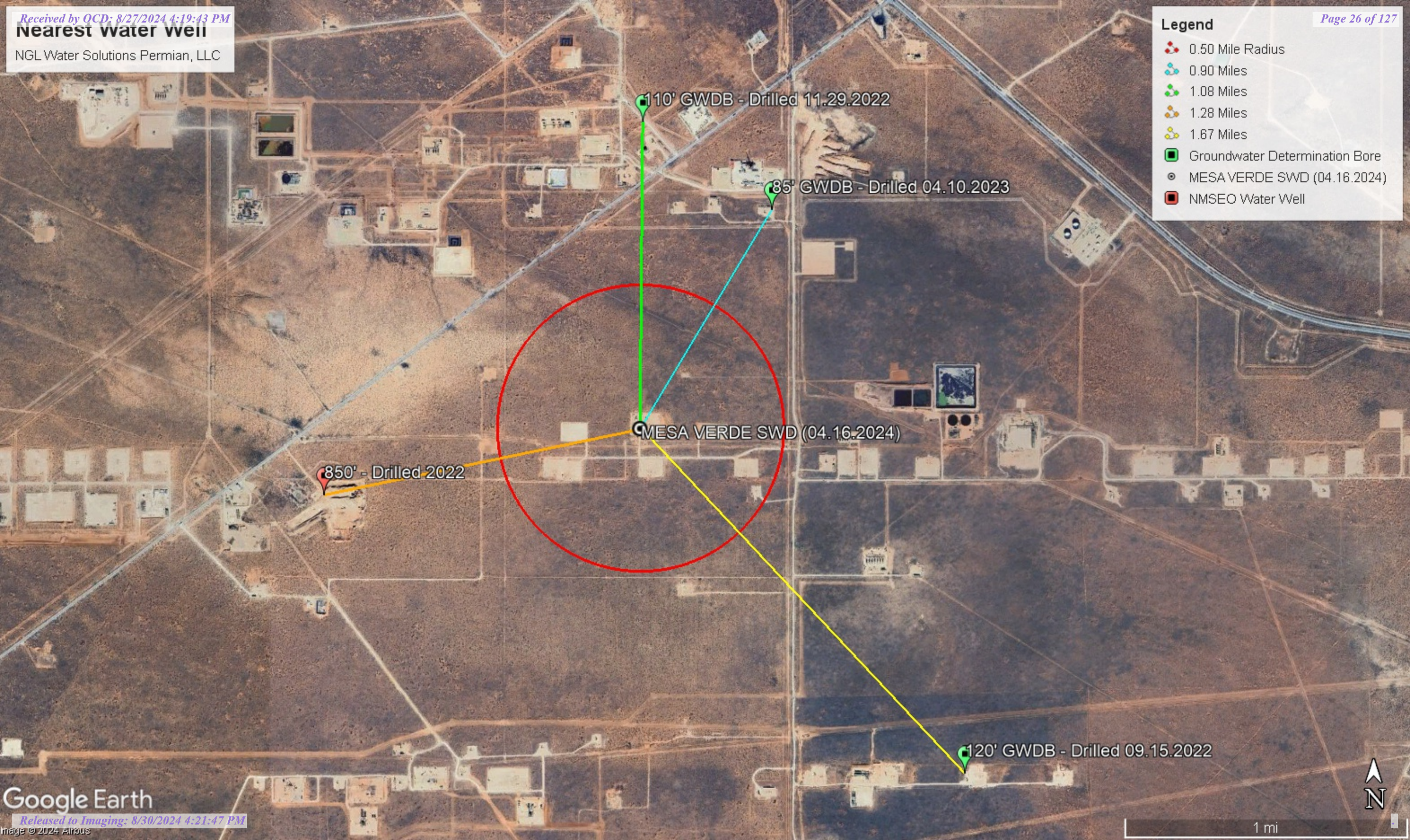


Nearest water well

NGL Water Solutions Permian, LLC

Legend

- 0.50 Mile Radius
- 0.90 Miles
- 1.08 Miles
- 1.28 Miles
- 1.67 Miles
- Groundwater Determination Bore
- MESA VERDE SWD (04.16.2024)
- NMSEO Water Well



Low Karst

NGL Water Solutions Permian, LLC

Legend



Low



MESA VERDE SWD (04.16.2024)

MESA VERDE SWD (04.16.2024)





Project Name :	NGL Mesa Verde SWD	Date :	August 12th, 2024
Project No. :	2341	Sampler :	Gilbert Priego Jr.
Location :	Eddy County, New Mexico	Driller :	H&R Enterprises, LLC
Coordinates :	32.212937, -103.731560	Method :	Air Rotary
Elevation :	3603 feet		

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		0' - Tan, poorly cemented small to medium subangular gravel with 75% fine, silty soft, loose sand. Dry, no odor, no organics (GM).		50		50' - Reddish brown, moderately cemented small subangular sandstone nodules with 75% fine, silty soft, loose sand. Dry, no odor, no organics (SM).	
5		5' - Tan, poorly cemented small to medium subangular gravel with 75% fine, silty soft, loose sand. Dry, no odor, no organics (GM).		55		55' - Reddish brown, moderately cemented small to medium subangular sandstone nodules with 55% fine, silty soft, loose sand. Dry, no odor, no organics (SW).	
10		10' - Pinkish-tan, poorly cemented small to medium subangular gravel with 35% fine, silty soft, loose sand. Dry, no odor, no organics (GP).		60			
15		15' - Tan, poorly cemented, small subrounded gravel with 85% fine, silty soft, loose sand. Dry, no odor, no organics (GM).		65			
20		20' - Tan, poorly cemented, small subrounded gravel with 85% fine, silty soft, loose sand. Dry, no odor, no organics (GM).		70			
25		25' - Tan, moderately cemented small to medium subangular gravel with 65% fine, silty soft, loose sand. Dry, no odor, no organics (GM).		75			
30		30' - Tan, moderately cemented medium to large subangular gravel with 25% fine, silty soft, loose sand. Dry, no odor, no organics (SW).		80			
35		35' - Pinkish brown, moderately cemented small to medium subrounded gravel with 65% fine, silty soft, loose sand. Dry, no odor, no organics (GM).		85			
40		40' - Pinkish brown, poorly cemented small to medium subangular gypsum nodules with 75% fine, silty soft, loose sand. Dry, no odor, no organics (SM).		90			
45		45' - Pinkish brown, poorly cemented small to medium subangular gypsum nodules with 75% fine, silty soft, loose sand. Dry, no odor, no organics (SM).		95			
50				105			

Comments : (08/12/24) Boring terminated at 55' at 9:05 A.M. Mountain Time with no presence of groundwater or moisture.



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04687 POD1	CUB	ED		4	2	3	12	24S	31E	619481	3566450	1724	110		
C 04576 POD1	CUB	ED		1	2	1	23	24S	31E	617700	3564324	1834	910	850	60
C 03530 POD1	C	LE		3	4	3	07	24S	32E	620886	3566156	1999	550		
C 04388 POD1	C	ED		3	2	1	23	24S	31E	617546	3564006	2072	910	868	42
C 04665	CUB	LE		1	1	2	30	24S	32E	621350	3562798	2678	120		
C 04508 POD1	CUB	ED		4	4	3	15	24S	31E	616298	3564493	3200	110		
C 04636 POD1	CUB	ED		3	4	3	25	24S	31E	619200	3561279	3458			
C 04643 POD1	C	ED		4	2	2	05	23S	27E	619200	3561279	3458	305	135	170
C 04654 POD1	CUB	ED		3	3	4	25	24S	31E	619764	3561226	3509	55		
C 04672 POD 1	CUB	ED		2	1	4	01	24S	31E	619762	3568286	3570	110		
C 02460	C	ED				3	02	24S	31E	617496	3568022*	3852	320		
C 02460 POD2	C	ED				3	02	24S	31E	617496	3568022*	3852	320		
C 02440	C	ED			2	3	10	24S	31E	616103	3566599*	3870	350		
C 04775 POD1	CUB	LE		4	4	4	06	24S	32E	621789	3567860	3887	105		

Average Depth to Water: **617 feet**

Minimum Depth: **135 feet**

Maximum Depth: **868 feet**

Record Count: 14

UTMNAD83 Radius Search (in meters):

Easting (X): 619490

Northing (Y): 3564726

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.

4/17/24 1:38 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4727-POD1

Well owner: Tetra Tech on behalf of ConocoPhillips

Phone No.: 713-806-6871

Mailing address: 901 W Wall St Suite 100

City: Midland State: TX Zip code: 79701

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: John Scarborough Drilling Inc
- 2) New Mexico Well Driller License No.: WD-1188 Expiration Date: 03/31/2024
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Lane Scarborough
- 4) Date well plugging began: 04/10/2023 Date well plugging concluded: 04/10/2023
- 5) GPS Well Location: Latitude: 32 deg, 13 min, 25.97 sec
Longitude: 103 deg, 4 3 min, 27.07 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 105 ft below ground level (bgl),
by the following manner: Cement-bentonite slurry (max 5.2 gallons water per 94-lb sack of Type I/II Portland cement)
- 7) Static water level measured at initiation of plugging: 85 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 03/28/2023
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OSE DIT NQU 3 2023 PM 1:47

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
105 feet - 2 feet below ground surface: Cement-bentonite slurry (bentonite powder) was mixed using a maximum of 5.2 gallons water per 94-lb sack of Type I/II Portland cement.		16.8 gallons of cement-bentonite slurry based on 2 inch diameter hole from 2 feet to 105 feet below the ground surface	17.1 gallons theoretically based on 2 inch diameter hole to 105 feet below the ground surface	Filled from the bottom upwards to 2 feet below the ground surface using a tremie pipe. The sealant material (cement-bent onite slurry) was pumped through the tremie pipe extended to near well bottom and kept below the top of the slurry column as the well is plugged from bottom-upwar ds, while the slurry displaces the standing water column upwards from below.	
2 feet to 0 feet below ground surface: soils and pad material collected during drilling of the temporary well					

MULTIPLY	BY	AND OBTAIN
cubic feet x 7.4805	=	gallons
cubic yards x 201.97	=	gallons

III. SIGNATURE:

I, Lane Scarborough, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Lane Scarborough

Signature of Well Driller

10/26/23

Date



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE DJJ DEC 21 2022 PM 3:17

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-04687- POD 1		WELL TAG ID NO.		OSE FILE NO(S). C-04687			
	WELL OWNER NAME(S) OXY USA INC				PHONE (OPTIONAL) 575-390-28285			
	WELL OWNER MAILING ADDRESS PO BOX 4294				CITY HOUSTON			
					STATE TX			
					ZIP 77210			
WELL LOCATION (FROM GPS)	DEGREES LATITUDE		MINUTES 32	SECONDS 13	41.99	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
	LONGITUDE		-103	43	55.00	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SUNDANCE SDS 11-1 SWD								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1184		NAME OF LICENSED DRILLER RUSSELL SOUTHERLAND			NAME OF WELL DRILLING COMPANY WEST TEXAS WATER WELL SERVICE		
	DRILLING STARTED 11/29/2022		DRILLING ENDED 11/29/2022		DEPTH OF COMPLETED WELL (FT) 110	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)	
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
				NO CASING IN HOLE				
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				N/A				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	C-04687	POD NO.	1	TRN NO.	739086
LOCATION	24S. 31E. 12. 4. 2. 3			WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	6		RED SAND	Y ✓ N	
	6	13		SANDY CALICHIE	Y ✓ N	
	13	20		RED SANDY CLAY	Y ✓ N	
	20	75		RED CLAY W/ SANDSTONE STREAKS	Y ✓ N	
	75	105		SAND, SANDSTONE	Y ✓ N	
	105	110		REDE SAND W/ LIMESTONE	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☒ OTHER – SPECIFY: DRY HOLE				TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.			
MISCELLANEOUS INFORMATION:						
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: RUSSELL SOUTHERLAND						
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME			DATE		

FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	C-04687	POD NO.	1
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2
745-31E-12.4.2.3			



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04576 POD1	1	2	1	23	24S	31E	617700	3564324

x

Driller License: 1058

Driller Company: KEY'S DRILLING & PUMP SERVICE

Driller Name: GARY KEY

Drill Start Date: 10/21/2021

Drill Finish Date: 01/19/2022

Plug Date:

Log File Date: 01/20/2022

PCW Rcv Date:

Source: Artesian

Pump Type:

Pipe Discharge Size:

Estimated Yield: 35 GPM

Casing Size:

Depth Well: 910 feet

Depth Water: 850 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	850	875	Sandstone/Gravel/Conglomerate
	885	905	Limestone/Dolomite/Chalk

x

Casing Perforations:	Top	Bottom
	794	910

x

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

4/17/24 1:50 PM

POINT OF DIVERSION SUMMARY

nmwrrs.ose.state.nm.us/ReportDispatcher?type=PODHTML&name=PodGroundSummaryHTML.jrxml&basin=C&nbr=04576&suffix=POD1

Released to Imaging: 8/30/2024 4:21:47 PM

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-04665 POD 1		WELL TAG ID NO.		OSE FILE NO(S). C-04665		
	WELL OWNER NAME(S) COG OPERATING LLC				PHONE (OPTIONAL) 575-988-2043		
	WELL OWNER MAILING ADDRESS 2208 W MAIN ST				CITY STATE ZIP ARTESIA NM 88210		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 11 42.72 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
		LONGITUDE	-103	42 45.30 W			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE KING TUT FEDERAL 001H							

2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1184		NAME OF LICENSED DRILLER RUSSELL SOUTHERLAND		NAME OF WELL DRILLING COMPANY WEST TEXAS WATER WELL SERVICE			
	DRILLING STARTED 9/15/2022	DRILLING ENDED 09/15/2022	DEPTH OF COMPLETED WELL (FT) 120	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)			
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
				NO CASING IN HOLE				

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				N/A		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	C-04665	POD NO.	1	TRN NO.	732879
LOCATION	24S. 32E. 30 112	WELL TAG ID NO.		PAGE 1 OF 2	

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	1		CALICHIE PAD	Y ✓ N	
	1	3		SANDY TOPSOIL	Y ✓ N	
	3	25		CALICHIE	Y ✓ N	
	25	27		RED SAND	Y ✓ N	
	27	120		RED SANDY CLAY	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
☐ PUMP ☐ AIR LIFT ☐ BAILER ☒ OTHER - SPECIFY: DRY HOLE						

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
	OSE DIT SEP 26 2022 PM 3:28	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: RUSSELL SOUTHERLAND		

6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.	
	RUSSELL SOUTHERLAND	09/15/2022
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO. C-04665	POD NO. 1	TRN NO. 732879
LOCATION 24S. 32E. 30 112	WELL TAG ID NO.	PAGE 2 OF 2

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 732879
File Nbr: C 04665
Well File Nbr: C 04665

Oct. 04, 2022

KALEI JENNINGS
ENSOLUM
601 N MARIENFIELD ST SUITE 400
MIDLAND, TX 79701

Greetings:

The above numbered permit was issued in your name on 08/26/2022.

The Well Record was received in this office on 09/26/2022, stating that it had been completed on 09/15/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 08/26/2023.

If you have any questions, please feel free to contact us.

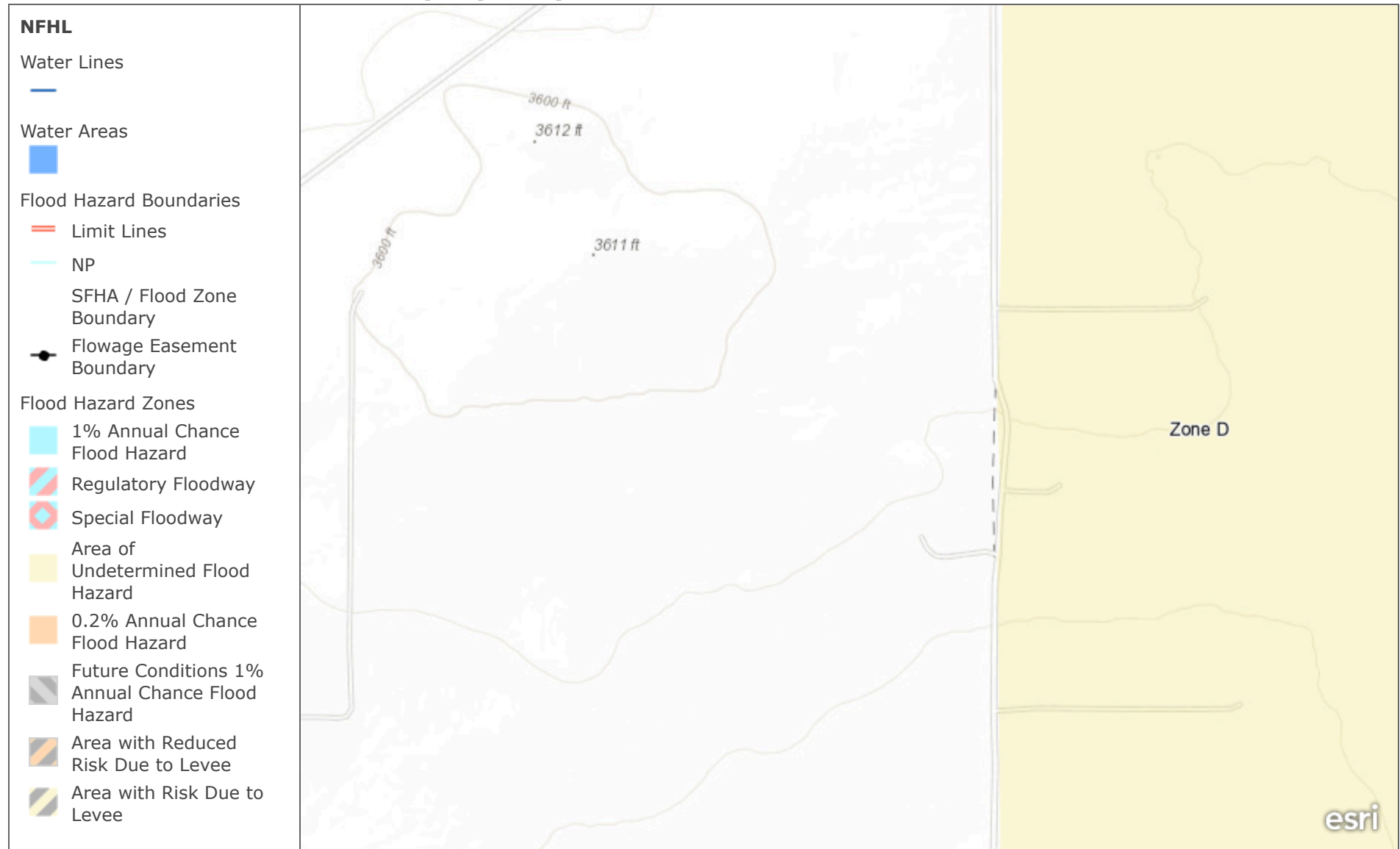
Sincerely,

A handwritten signature in cursive script that reads "Vanessa Clements".

Vanessa Clements
(575) 622-6521

drywell

FEMA National Flood Hazard Layer (NFHL)



FEMA flood layer

0.3mi

Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA

FEMA National Flood Hazard Layer (NFHL)

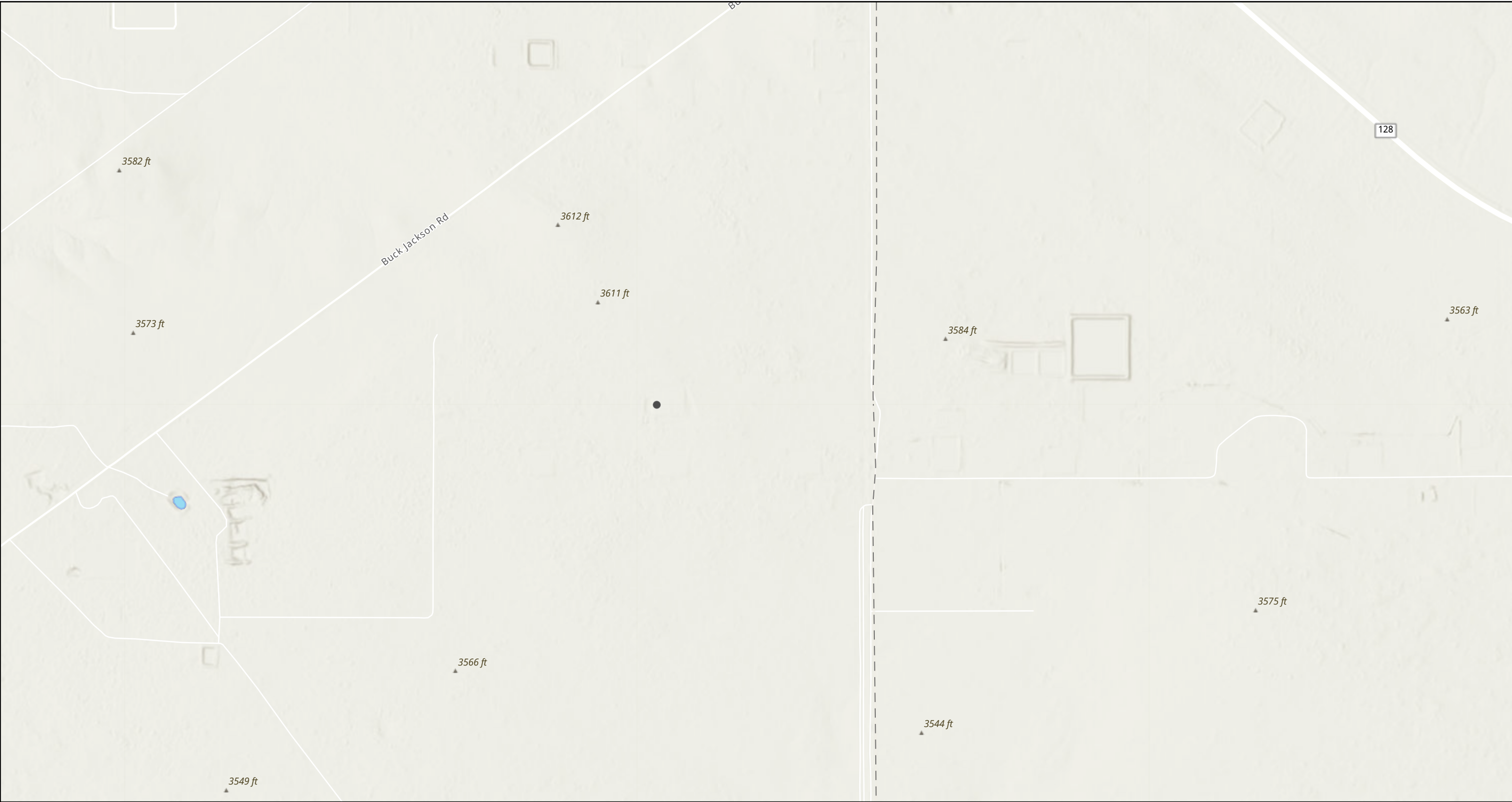


FEMA flood layer

0.3mi

Maxar | Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

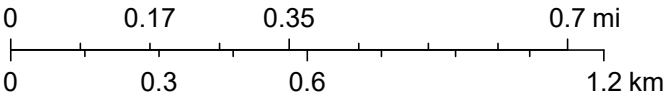
MESA VERDE SWD (04.16.2024)



4/17/2024, 2:37:27 PM

OSW Water Bodys

1:18,056



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

APPENDIX E

CARMONA RESOURCES





Environment Testing

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- 13
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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/2/2024 1:58:46 PM

JOB DESCRIPTION

Mesa Verde SWD #3 (4.16.24)
Eddy Co, NM

JOB NUMBER

880-42918-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
5/2/2024 1:58:46 PM

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

Client: Carmona Resources
Project/Site: Mesa Verde SWD #3 (4.16.24)

Laboratory Job ID: 880-42918-1
SDG: Eddy Co, NM

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QC Sample Results	11
QC Association Summary	15
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Certification Summary	19
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Chain of Custody	22
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Definitions/Glossary

Client: Carmona Resources
Project/Site: Mesa Verde SWD #3 (4.16.24)

Job ID: 880-42918-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Mesa Verde SWD #3 (4.16.24)

Job ID: 880-42918-1

Job ID: 880-42918-1

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Job Narrative 880-42918-1

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 5/1/2024 8:56 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -6.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-42918-1), H-2 (0-0.5') (880-42918-2), H-3 (0-0.5') (880-42918-3), H-4 (0-0.5') (880-42918-4) and H-5 (0-0.5') (880-42918-5).

GC VOA

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 method blank for preparation batch 880-79734 and analytical batch 880-79708 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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.

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD #3 (4.16.24)

Job ID: 880-42918-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-42918-1

Date Collected: 04/30/24 00:00

Matrix: Solid

Date Received: 05/01/24 08:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/01/24 10:46	05/01/24 17:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/01/24 10:46	05/01/24 17:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/01/24 10:46	05/01/24 17:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/01/24 10:46	05/01/24 17:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/01/24 10:46	05/01/24 17:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/01/24 10:46	05/01/24 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	05/01/24 10:46	05/01/24 17:43	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/01/24 10:46	05/01/24 17:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/01/24 17:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/01/24 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/01/24 10:03	05/01/24 12:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/01/24 10:03	05/01/24 12:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/01/24 10:03	05/01/24 12:11	1
Total TPH	<49.8	U	49.8		mg/Kg		05/01/24 10:03	05/01/24 12:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	05/01/24 10:03	05/01/24 12:11	1
o-Terphenyl	95		70 - 130	05/01/24 10:03	05/01/24 12:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	264		4.99		mg/Kg			05/01/24 23:36	1

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

Lab Sample ID: 880-42918-2

Date Collected: 04/30/24 00:00

Matrix: Solid

Date Received: 05/01/24 08:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/01/24 10:46	05/01/24 18:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/01/24 10:46	05/01/24 18:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/01/24 10:46	05/01/24 18:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/01/24 10:46	05/01/24 18:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/01/24 10:46	05/01/24 18:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/01/24 10:46	05/01/24 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	05/01/24 10:46	05/01/24 18:03	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/01/24 10:46	05/01/24 18:03	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD #3 (4.16.24)

Job ID: 880-42918-1
SDG: Eddy Co, NM

Client Sample ID: H-2 (0-0.5')
Date Collected: 04/30/24 00:00
Date Received: 05/01/24 08:56

Lab Sample ID: 880-42918-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/01/24 18:03	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9		mg/Kg			05/01/24 12:32	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/01/24 10:03	05/01/24 12:32	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/01/24 10:03	05/01/24 12:32	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/01/24 10:03	05/01/24 12:32	1	
Total TPH	<49.9	U	49.9		mg/Kg		05/01/24 10:03	05/01/24 12:32	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	105		70 - 130				05/01/24 10:03	05/01/24 12:32	1	
o-Terphenyl	91		70 - 130				05/01/24 10:03	05/01/24 12:32	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	71.6		5.02		mg/Kg			05/01/24 23:41	1	

Client Sample ID: H-3 (0-0.5')
Date Collected: 04/30/24 00:00
Date Received: 05/01/24 08:56

Lab Sample ID: 880-42918-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		05/01/24 10:46	05/01/24 18:23	1	
Toluene	<0.00200	U	0.00200		mg/Kg		05/01/24 10:46	05/01/24 18:23	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/01/24 10:46	05/01/24 18:23	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/01/24 10:46	05/01/24 18:23	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/01/24 10:46	05/01/24 18:23	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/01/24 10:46	05/01/24 18:23	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	116		70 - 130				05/01/24 10:46	05/01/24 18:23	1	
1,4-Difluorobenzene (Surr)	91		70 - 130				05/01/24 10:46	05/01/24 18:23	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/01/24 18:23	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0		mg/Kg			05/01/24 12:53	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/01/24 10:03	05/01/24 12:53	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD #3 (4.16.24)

Job ID: 880-42918-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-42918-3

Date Collected: 04/30/24 00:00

Matrix: Solid

Date Received: 05/01/24 08:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/01/24 10:03	05/01/24 12:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/01/24 10:03	05/01/24 12:53	1
Total TPH	<50.0	U	50.0		mg/Kg		05/01/24 10:03	05/01/24 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/01/24 10:03	05/01/24 12:53	1
o-Terphenyl	95		70 - 130				05/01/24 10:03	05/01/24 12:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.9		5.03		mg/Kg			05/01/24 23:55	1

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

Lab Sample ID: 880-42918-4

Date Collected: 04/30/24 00:00

Matrix: Solid

Date Received: 05/01/24 08:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/01/24 10:46	05/01/24 18:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/01/24 10:46	05/01/24 18:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/01/24 10:46	05/01/24 18:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/01/24 10:46	05/01/24 18:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/01/24 10:46	05/01/24 18:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/01/24 10:46	05/01/24 18:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				05/01/24 10:46	05/01/24 18:44	1
1,4-Difluorobenzene (Surr)	92		70 - 130				05/01/24 10:46	05/01/24 18:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/01/24 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/01/24 13:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/01/24 10:03	05/01/24 13:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/01/24 10:03	05/01/24 13:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/01/24 10:03	05/01/24 13:14	1
Total TPH	<50.0	U	50.0		mg/Kg		05/01/24 10:03	05/01/24 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				05/01/24 10:03	05/01/24 13:14	1
o-Terphenyl	106		70 - 130				05/01/24 10:03	05/01/24 13:14	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD #3 (4.16.24)

Job ID: 880-42918-1
SDG: Eddy Co, NM

Client Sample ID: H-4 (0-0.5')
Date Collected: 04/30/24 00:00
Date Received: 05/01/24 08:56

Lab Sample ID: 880-42918-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	290		4.98		mg/Kg			05/02/24 00:00	1

Client Sample ID: H-5 (0-0.5')
Date Collected: 04/30/24 00:00
Date Received: 05/01/24 08:56

Lab Sample ID: 880-42918-5
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/01/24 10:46	05/01/24 19:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/01/24 10:46	05/01/24 19:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/01/24 10:46	05/01/24 19:04	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/01/24 10:46	05/01/24 19:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/01/24 10:46	05/01/24 19:04	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/01/24 10:46	05/01/24 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				05/01/24 10:46	05/01/24 19:04	1
1,4-Difluorobenzene (Surr)	92		70 - 130				05/01/24 10:46	05/01/24 19:04	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			05/01/24 19:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/01/24 13:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/01/24 10:03	05/01/24 13:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/01/24 10:03	05/01/24 13:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/01/24 10:03	05/01/24 13:36	1
Total TPH	<49.9	U	49.9		mg/Kg		05/01/24 10:03	05/01/24 13:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/01/24 10:03	05/01/24 13:36	1
o-Terphenyl	92		70 - 130				05/01/24 10:03	05/01/24 13:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.9		4.99		mg/Kg			05/02/24 00:05	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Mesa Verde SWD #3 (4.16.24)

Job ID: 880-42918-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-42905-A-1-E MS	Matrix Spike	116	92
880-42905-A-1-F MSD	Matrix Spike Duplicate	115	100
880-42918-1	H-1 (0-0.5')	118	92
880-42918-2	H-2 (0-0.5')	117	92
880-42918-3	H-3 (0-0.5')	116	91
880-42918-4	H-4 (0-0.5')	118	92
880-42918-5	H-5 (0-0.5')	118	92
LCS 880-79722/1-A	Lab Control Sample	113	100
LCSD 880-79722/2-A	Lab Control Sample Dup	115	102
MB 880-79722/5-A	Method Blank	114	89

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-42918-1	H-1 (0-0.5')	112	95
880-42918-2	H-2 (0-0.5')	105	91
880-42918-3	H-3 (0-0.5')	106	95
880-42918-4	H-4 (0-0.5')	121	106
880-42918-5	H-5 (0-0.5')	106	92
890-6565-A-1-D MS	Matrix Spike	119	97
890-6565-A-1-E MSD	Matrix Spike Duplicate	126	98
LCS 880-79734/2-A	Lab Control Sample	124	128
LCSD 880-79734/3-A	Lab Control Sample Dup	103	109
MB 880-79734/1-A	Method Blank	104	93

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD #3 (4.16.24)

Job ID: 880-42918-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-79722/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 79715							Prep Batch: 79722		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/01/24 09:20	05/01/24 11:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/01/24 09:20	05/01/24 11:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/01/24 09:20	05/01/24 11:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/01/24 09:20	05/01/24 11:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/01/24 09:20	05/01/24 11:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/01/24 09:20	05/01/24 11:16	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				05/01/24 09:20	05/01/24 11:16	1
1,4-Difluorobenzene (Surr)	89		70 - 130				05/01/24 09:20	05/01/24 11:16	1

Lab Sample ID: LCS 880-79722/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 79715							Prep Batch: 79722		
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene		0.100	0.1025		mg/Kg		102	70 - 130	
Toluene		0.100	0.1005		mg/Kg		100	70 - 130	
Ethylbenzene		0.100	0.1015		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene		0.200	0.2084		mg/Kg		104	70 - 130	
o-Xylene		0.100	0.1039		mg/Kg		104	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	113		70 - 130						
1,4-Difluorobenzene (Surr)	100		70 - 130						

Lab Sample ID: LCSD 880-79722/2-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 79715							Prep Batch: 79722			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.1102		mg/Kg		110	70 - 130	7	35
Toluene		0.100	0.1086		mg/Kg		109	70 - 130	8	35
Ethylbenzene		0.100	0.1101		mg/Kg		110	70 - 130	8	35
m-Xylene & p-Xylene		0.200	0.2240		mg/Kg		112	70 - 130	7	35
o-Xylene		0.100	0.1116		mg/Kg		112	70 - 130	7	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	115		70 - 130							
1,4-Difluorobenzene (Surr)	102		70 - 130							

Lab Sample ID: 880-42905-A-1-E MS							Client Sample ID: Matrix Spike		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 79715							Prep Batch: 79722		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09878		mg/Kg		99	70 - 130
Toluene	<0.00201	U	0.100	0.09713		mg/Kg		97	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD #3 (4.16.24)

Job ID: 880-42918-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-42905-A-1-E MS
Matrix: Solid
Analysis Batch: 79715

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 79722

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.09403		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1987		mg/Kg		99	70 - 130
o-Xylene	<0.00201	U	0.100	0.1010		mg/Kg		101	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	116		70 - 130						
1,4-Difluorobenzene (Surr)	92		70 - 130						

Lab Sample ID: 880-42905-A-1-F MSD
Matrix: Solid
Analysis Batch: 79715

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 79722

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.1056		mg/Kg		106	70 - 130	7	35
Toluene	<0.00201	U	0.100	0.1037		mg/Kg		104	70 - 130	7	35
Ethylbenzene	<0.00201	U	0.100	0.1028		mg/Kg		103	70 - 130	9	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2104		mg/Kg		105	70 - 130	6	35
o-Xylene	<0.00201	U	0.100	0.1050		mg/Kg		105	70 - 130	4	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	115		70 - 130								
1,4-Difluorobenzene (Surr)	100		70 - 130								

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

Lab Sample ID: MB 880-79734/1-A
Matrix: Solid
Analysis Batch: 79708

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 79734

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/01/24 08:03	05/01/24 08:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/01/24 08:03	05/01/24 08:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/01/24 08:03	05/01/24 08:41	1
Total TPH	<50.0	U	50.0		mg/Kg		05/01/24 08:03	05/01/24 08:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	93		70 - 130						

Lab Sample ID: LCS 880-79734/2-A
Matrix: Solid
Analysis Batch: 79708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 79734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	970.1		mg/Kg		97	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD #3 (4.16.24)

Job ID: 880-42918-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-79734/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 79708

Prep Batch: 79734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	955.4		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	128		70 - 130

Lab Sample ID: LCSD 880-79734/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 79708				Prep Batch: 79734						
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	989.1		mg/Kg		99	70 - 130	2 20
Diesel Range Organics (Over C10-C28)			1000	968.1		mg/Kg		97	70 - 130	1 20
		LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	103		70 - 130							
o-Terphenyl	109		70 - 130							

Lab Sample ID: 890-6565-A-1-D MS						Client Sample ID: Matrix Spike						
Matrix: Solid						Prep Type: Total/NA						
Analysis Batch: 79708						Prep Batch: 79734						
Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier				Limits			
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1158		mg/Kg		116	70 - 130			
Diesel Range Organics (Over C10-C28)	<49.9	U	997	935.3		mg/Kg		90	70 - 130			

Lab Sample ID: 890-6565-A-1-E MSD				Client Sample ID: Matrix Spike Duplicate						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 79708				Prep Batch: 79734						
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1239		mg/Kg		124	70 - 130	7 20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	989.3		mg/Kg		96	70 - 130	6 20
		MSD	MSD							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	126		70 - 130							
o-Terphenyl	98		70 - 130							

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QC Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD #3 (4.16.24)

Job ID: 880-42918-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-79759/1-A

Matrix: Solid

Analysis Batch: 79774

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/01/24 22:57	1

Lab Sample ID: LCS 880-79759/2-A

Matrix: Solid

Analysis Batch: 79774

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.3		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-79759/3-A

Matrix: Solid

Analysis Batch: 79774

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	243.3		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-42914-A-4-C MS

Matrix: Solid

Analysis Batch: 79774

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15200		5040	19840		mg/Kg		92	90 - 110

Lab Sample ID: 880-42914-A-4-D MSD

Matrix: Solid

Analysis Batch: 79774

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	15200		5040	19870		mg/Kg		93	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Mesa Verde SWD #3 (4.16.24)

Job ID: 880-42918-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 79715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42918-1	H-1 (0-0.5')	Total/NA	Solid	8021B	79722
880-42918-2	H-2 (0-0.5')	Total/NA	Solid	8021B	79722
880-42918-3	H-3 (0-0.5')	Total/NA	Solid	8021B	79722
880-42918-4	H-4 (0-0.5')	Total/NA	Solid	8021B	79722
880-42918-5	H-5 (0-0.5')	Total/NA	Solid	8021B	79722
MB 880-79722/5-A	Method Blank	Total/NA	Solid	8021B	79722
LCS 880-79722/1-A	Lab Control Sample	Total/NA	Solid	8021B	79722
LCSD 880-79722/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	79722
880-42905-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	79722
880-42905-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	79722

Prep Batch: 79722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42918-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-42918-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-42918-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-42918-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-42918-5	H-5 (0-0.5')	Total/NA	Solid	5035	
MB 880-79722/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-79722/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-79722/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-42905-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-42905-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 79827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42918-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-42918-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-42918-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-42918-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-42918-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 79708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42918-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	79734
880-42918-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	79734
880-42918-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	79734
880-42918-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	79734
880-42918-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	79734
MB 880-79734/1-A	Method Blank	Total/NA	Solid	8015B NM	79734
LCS 880-79734/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	79734
LCSD 880-79734/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	79734
890-6565-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	79734
890-6565-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	79734

Prep Batch: 79734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42918-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-42918-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources
Project/Site: Mesa Verde SWD #3 (4.16.24)

Job ID: 880-42918-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Prep Batch: 79734 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42918-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-42918-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-42918-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-79734/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-79734/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-79734/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6565-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6565-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 79865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42918-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-42918-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-42918-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-42918-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-42918-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 79759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42918-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-42918-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-42918-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-42918-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-42918-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-79759/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-79759/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-79759/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-42914-A-4-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-42914-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 79774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42918-1	H-1 (0-0.5')	Soluble	Solid	300.0	79759
880-42918-2	H-2 (0-0.5')	Soluble	Solid	300.0	79759
880-42918-3	H-3 (0-0.5')	Soluble	Solid	300.0	79759
880-42918-4	H-4 (0-0.5')	Soluble	Solid	300.0	79759
880-42918-5	H-5 (0-0.5')	Soluble	Solid	300.0	79759
MB 880-79759/1-A	Method Blank	Soluble	Solid	300.0	79759
LCS 880-79759/2-A	Lab Control Sample	Soluble	Solid	300.0	79759
LCSD 880-79759/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	79759
880-42914-A-4-C MS	Matrix Spike	Soluble	Solid	300.0	79759
880-42914-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	79759

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Mesa Verde SWD #3 (4.16.24)

Job ID: 880-42918-1
SDG: Eddy Co, NM

Client Sample ID: H-1 (0-0.5')
Date Collected: 04/30/24 00:00
Date Received: 05/01/24 08:56

Lab Sample ID: 880-42918-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	79722	05/01/24 10:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	79715	05/01/24 17:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			79827	05/01/24 17:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			79865	05/01/24 12:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	79734	05/01/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	79708	05/01/24 12:11	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	79759	05/01/24 13:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	79774	05/01/24 23:36	SMC	EET MID

Client Sample ID: H-2 (0-0.5')
Date Collected: 04/30/24 00:00
Date Received: 05/01/24 08:56

Lab Sample ID: 880-42918-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	79722	05/01/24 10:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	79715	05/01/24 18:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			79827	05/01/24 18:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			79865	05/01/24 12:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	79734	05/01/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	79708	05/01/24 12:32	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	79759	05/01/24 13:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	79774	05/01/24 23:41	SMC	EET MID

Client Sample ID: H-3 (0-0.5')
Date Collected: 04/30/24 00:00
Date Received: 05/01/24 08:56

Lab Sample ID: 880-42918-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	79722	05/01/24 10:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	79715	05/01/24 18:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			79827	05/01/24 18:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			79865	05/01/24 12:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	79734	05/01/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	79708	05/01/24 12:53	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	79759	05/01/24 13:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	79774	05/01/24 23:55	SMC	EET MID

Client Sample ID: H-4 (0-0.5')
Date Collected: 04/30/24 00:00
Date Received: 05/01/24 08:56

Lab Sample ID: 880-42918-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	79722	05/01/24 10:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	79715	05/01/24 18:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			79827	05/01/24 18:44	SM	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Mesa Verde SWD #3 (4.16.24)

Job ID: 880-42918-1
SDG: Eddy Co, NM

Client Sample ID: H-4 (0-0.5')
Date Collected: 04/30/24 00:00
Date Received: 05/01/24 08:56

Lab Sample ID: 880-42918-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			79865	05/01/24 13:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	79734	05/01/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	79708	05/01/24 13:14	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	79759	05/01/24 13:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	79774	05/02/24 00:00	SMC	EET MID

Client Sample ID: H-5 (0-0.5')
Date Collected: 04/30/24 00:00
Date Received: 05/01/24 08:56

Lab Sample ID: 880-42918-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	79722	05/01/24 10:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	79715	05/01/24 19:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			79827	05/01/24 19:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			79865	05/01/24 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	79734	05/01/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	79708	05/01/24 13:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	79759	05/01/24 13:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	79774	05/02/24 00:05	SMC	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Mesa Verde SWD #3 (4.16.24)

Job ID: 880-42918-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Mesa Verde SWD #3 (4.16.24)

Job ID: 880-42918-1
SDG: Eddy Co, NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Mesa Verde SWD #3 (4.16.24)

Job ID: 880-42918-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-42918-1	H-1 (0-0.5')	Solid	04/30/24 00:00	05/01/24 08:56
880-42918-2	H-2 (0-0.5')	Solid	04/30/24 00:00	05/01/24 08:56
880-42918-3	H-3 (0-0.5')	Solid	04/30/24 00:00	05/01/24 08:56
880-42918-4	H-4 (0-0.5')	Solid	04/30/24 00:00	05/01/24 08:56
880-42918-5	H-5 (0-0.5')	Solid	04/30/24 00:00	05/01/24 08:56

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Project Manager	Conner Moehring	Bill to: (if different)	Joseph Vargo
Company Name	Carmona Resources	Company Name	NGL Water Solutions Permian
Address	310 W Wall St Ste 500	Address	865 North Albion St. Ste 400
City, State ZIP	Midland, TX 79701	City, State ZIP	Denver, CO 80220
Phone	432-813-6823	Email	joseph.vargo@nldp.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfield ☐ RR ☐ Superfund ☐	
State of Project:	
Reporting Level I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRR ☐ Level N ☐	
Deliverables EDD ☐ ADAPT ☐ Other	



5/2/2024

Project Name		Mesa Verde SWD #3 (4 16 24)		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Comments:

Relinquished by (Signature)	Date/Time	5/1/24 - 0856	Received by (Signature)	Date/Time

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-42918-1

SDG Number: Eddy Co, NM

Login Number: 42918

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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/21/2024 12:58:56 PM

JOB DESCRIPTION

Mesa Verde SWD (4.16.24)
Eddy County, New Mexico

JOB NUMBER

880-44909-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



Generated
6/21/2024 12:58:56 PM

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

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Laboratory Job ID: 880-44909-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Case Narrative

Client: Carmona Resources
Project: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1

Job ID: 880-44909-1

Eurofins Midland

Job Narrative 880-44909-1

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 6/18/2024 1:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: T-1 (0-1') (880-44909-1), T-1 (1.5') (880-44909-2), T-1 (2') (880-44909-3), T-1 (3') (880-44909-4), T-1 (4') (880-44909-5), T-1 (5') (880-44909-6), T-2 (0-1') (880-44909-7), T-2 (1.5') (880-44909-8), T-2 (2') (880-44909-9), T-2 (3') (880-44909-10), T-2 (4') (880-44909-11), T-2 (5') (880-44909-12), T-3 (0-1') (880-44909-13), T-3 (1.5') (880-44909-14), T-3 (2') (880-44909-15), T-3 (3') (880-44909-16), T-3 (4') (880-44909-17), T-3 (5') (880-44909-18), T-3 (6') (880-44909-19), T-4 (0-1') (880-44909-20), T-4 (1.5') (880-44909-21), T-4 (2') (880-44909-22), T-4 (3') (880-44909-23) and T-4 (4') (880-44909-24).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-83496 and analytical batch 880-83538 was outside the upper control limits.

Method 8021B: Spike compounds were inadvertently omitted during the extraction process for the matrix spike duplicate (MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-83485 and analytical batch 880-83535. The associated laboratory control sample (LCS) met acceptance criteria.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside the upper control limit: T-1 (0-1') (880-44909-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-83392 and analytical batch 880-83524 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 880-83520 and analytical batch 880-83641 were outside control limits: (880-44909-A-11-C MS) and (880-44909-A-11-D MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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

HPLC/IC

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (0-1')

Lab Sample ID: 880-44909-1

Date Collected: 06/17/24 00:00

Matrix: Solid

Date Received: 06/18/24 13:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		06/18/24 15:41	06/19/24 11:58	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		06/18/24 15:41	06/19/24 11:58	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		06/18/24 15:41	06/19/24 11:58	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		06/18/24 15:41	06/19/24 11:58	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		06/18/24 15:41	06/19/24 11:58	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		06/18/24 15:41	06/19/24 11:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	06/18/24 15:41	06/19/24 11:58	1
1,4-Difluorobenzene (Surr)	101		70 - 130	06/18/24 15:41	06/19/24 11:58	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			06/19/24 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/19/24 15:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 15:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 15:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 15:03	1
Total TPH	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	188	S1+	70 - 130	06/17/24 16:38	06/19/24 15:03	1
o-Terphenyl	202	S1+	70 - 130	06/17/24 16:38	06/19/24 15:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20300		100		mg/Kg			06/19/24 17:12	20

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-44909-2

Date Collected: 06/17/24 00:00

Matrix: Solid

Date Received: 06/18/24 13:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 12:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 12:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 12:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/18/24 15:41	06/19/24 12:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 12:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/18/24 15:41	06/19/24 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	06/18/24 15:41	06/19/24 12:18	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/18/24 15:41	06/19/24 12:18	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (1.5')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/19/24 12:18	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.8	U	49.8		mg/Kg			06/19/24 15:24	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 15:24	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 15:24	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 15:24	1	
Total TPH	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 15:24	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	91		70 - 130				06/17/24 16:38	06/19/24 15:24	1	
o-Terphenyl	101		70 - 130				06/17/24 16:38	06/19/24 15:24	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2350		24.9		mg/Kg			06/19/24 17:17	5	

Client Sample ID: T-1 (2')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00202	U	0.00202		mg/Kg		06/18/24 15:41	06/19/24 12:39	1	
Toluene	<0.00202	U	0.00202		mg/Kg		06/18/24 15:41	06/19/24 12:39	1	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/18/24 15:41	06/19/24 12:39	1	
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/18/24 15:41	06/19/24 12:39	1	
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/18/24 15:41	06/19/24 12:39	1	
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/18/24 15:41	06/19/24 12:39	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	115		70 - 130				06/18/24 15:41	06/19/24 12:39	1	
1,4-Difluorobenzene (Surr)	100		70 - 130				06/18/24 15:41	06/19/24 12:39	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/19/24 12:39	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9		mg/Kg			06/19/24 15:44	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/17/24 16:38	06/19/24 15:44	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (2')

Lab Sample ID: 880-44909-3

Date Collected: 06/17/24 00:00

Matrix: Solid

Date Received: 06/18/24 13:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/17/24 16:38	06/19/24 15:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/17/24 16:38	06/19/24 15:44	1
Total TPH	<49.9	U	49.9		mg/Kg		06/17/24 16:38	06/19/24 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				06/17/24 16:38	06/19/24 15:44	1
o-Terphenyl	85		70 - 130				06/17/24 16:38	06/19/24 15:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2090		24.8		mg/Kg			06/19/24 17:32	5

Client Sample ID: T-1 (3')

Lab Sample ID: 880-44909-4

Date Collected: 06/17/24 00:00

Matrix: Solid

Date Received: 06/18/24 13:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 12:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 12:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 12:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/18/24 15:41	06/19/24 12:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 12:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/18/24 15:41	06/19/24 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				06/18/24 15:41	06/19/24 12:59	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/18/24 15:41	06/19/24 12:59	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			06/19/24 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/19/24 16:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 16:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 16:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 16:05	1
Total TPH	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 16:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				06/17/24 16:38	06/19/24 16:05	1
o-Terphenyl	99		70 - 130				06/17/24 16:38	06/19/24 16:05	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (3')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1970		25.2		mg/Kg			06/19/24 17:37	5

Client Sample ID: T-1 (4')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-5
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/18/24 15:41	06/19/24 13:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/18/24 15:41	06/19/24 13:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/18/24 15:41	06/19/24 13:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/18/24 15:41	06/19/24 13:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/18/24 15:41	06/19/24 13:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/18/24 15:41	06/19/24 13:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				06/18/24 15:41	06/19/24 13:19	1
1,4-Difluorobenzene (Surr)	99		70 - 130				06/18/24 15:41	06/19/24 13:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/19/24 13:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/19/24 16:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 16:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 16:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 16:25	1
Total TPH	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 16:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				06/17/24 16:38	06/19/24 16:25	1
o-Terphenyl	100		70 - 130				06/17/24 16:38	06/19/24 16:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		4.97		mg/Kg			06/19/24 17:42	1

Client Sample ID: T-1 (5')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/18/24 15:41	06/19/24 13:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/18/24 15:41	06/19/24 13:40	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (5')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/18/24 15:41	06/19/24 13:40	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/18/24 15:41	06/19/24 13:40	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/18/24 15:41	06/19/24 13:40	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/18/24 15:41	06/19/24 13:40	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	112		70 - 130				06/18/24 15:41	06/19/24 13:40	1	
1,4-Difluorobenzene (Surr)	99		70 - 130				06/18/24 15:41	06/19/24 13:40	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/19/24 13:40	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0		mg/Kg			06/19/24 16:46	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/17/24 16:38	06/19/24 16:46	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/17/24 16:38	06/19/24 16:46	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/17/24 16:38	06/19/24 16:46	1	
Total TPH	<50.0	U	50.0		mg/Kg		06/17/24 16:38	06/19/24 16:46	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	95		70 - 130				06/17/24 16:38	06/19/24 16:46	1	
o-Terphenyl	104		70 - 130				06/17/24 16:38	06/19/24 16:46	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	55.8		4.98		mg/Kg			06/19/24 17:47	1	

Client Sample ID: T-2 (0-1')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 14:00	1	
Toluene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 14:00	1	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 14:00	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/18/24 15:41	06/19/24 14:00	1	
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 14:00	1	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/18/24 15:41	06/19/24 14:00	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	110		70 - 130				06/18/24 15:41	06/19/24 14:00	1	
1,4-Difluorobenzene (Surr)	99		70 - 130				06/18/24 15:41	06/19/24 14:00	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (0-1')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-7
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/19/24 14:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	149		49.7		mg/Kg			06/19/24 17:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/17/24 16:38	06/19/24 17:06	1
Diesel Range Organics (Over C10-C28)	149		49.7		mg/Kg		06/17/24 16:38	06/19/24 17:06	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/17/24 16:38	06/19/24 17:06	1
Total TPH	149		49.7		mg/Kg		06/17/24 16:38	06/19/24 17:06	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				06/17/24 16:38	06/19/24 17:06	1
o-Terphenyl	103		70 - 130				06/17/24 16:38	06/19/24 17:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15700		100		mg/Kg			06/19/24 17:52	20

Client Sample ID: T-2 (1.5')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/18/24 15:41	06/19/24 14:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/18/24 15:41	06/19/24 14:21	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/18/24 15:41	06/19/24 14:21	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/18/24 15:41	06/19/24 14:21	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/18/24 15:41	06/19/24 14:21	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/18/24 15:41	06/19/24 14:21	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				06/18/24 15:41	06/19/24 14:21	1
1,4-Difluorobenzene (Surr)	99		70 - 130				06/18/24 15:41	06/19/24 14:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/19/24 14:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/19/24 17:27	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/17/24 16:38	06/19/24 17:27	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (1.5')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-8
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/17/24 16:38	06/19/24 17:27	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/17/24 16:38	06/19/24 17:27	1	
Total TPH	<49.7	U	49.7		mg/Kg		06/17/24 16:38	06/19/24 17:27	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	96		70 - 130				06/17/24 16:38	06/19/24 17:27	1	
o-Terphenyl	104		70 - 130				06/17/24 16:38	06/19/24 17:27	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1040		4.97		mg/Kg			06/19/24 17:57	1	

Client Sample ID: T-2 (2')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-9
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 14:41	1	
Toluene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 14:41	1	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 14:41	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/18/24 15:41	06/19/24 14:41	1	
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 14:41	1	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/18/24 15:41	06/19/24 14:41	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	112		70 - 130				06/18/24 15:41	06/19/24 14:41	1	
1,4-Difluorobenzene (Surr)	99		70 - 130				06/18/24 15:41	06/19/24 14:41	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			06/19/24 14:41	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.8	U	49.8		mg/Kg			06/19/24 17:47	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 17:47	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 17:47	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 17:47	1	
Total TPH	<49.8	U	49.8		mg/Kg		06/17/24 16:38	06/19/24 17:47	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	91		70 - 130				06/17/24 16:38	06/19/24 17:47	1	
o-Terphenyl	99		70 - 130				06/17/24 16:38	06/19/24 17:47	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (2')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-9
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1820		25.2		mg/Kg			06/19/24 18:02	5

Client Sample ID: T-2 (3')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-10
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/18/24 15:41	06/19/24 15:07	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/18/24 15:41	06/19/24 15:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/18/24 15:41	06/19/24 15:07	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/18/24 15:41	06/19/24 15:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/18/24 15:41	06/19/24 15:07	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/18/24 15:41	06/19/24 15:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				06/18/24 15:41	06/19/24 15:07	1
1,4-Difluorobenzene (Surr)	93		70 - 130				06/18/24 15:41	06/19/24 15:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/19/24 15:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/19/24 18:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/17/24 16:38	06/19/24 18:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/17/24 16:38	06/19/24 18:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/17/24 16:38	06/19/24 18:08	1
Total TPH	<50.0	U	50.0		mg/Kg		06/17/24 16:38	06/19/24 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				06/17/24 16:38	06/19/24 18:08	1
o-Terphenyl	97		70 - 130				06/17/24 16:38	06/19/24 18:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1870		25.1		mg/Kg			06/19/24 19:37	5

Client Sample ID: T-2 (4')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 17:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 17:29	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (4')

Lab Sample ID: 880-44909-11

Date Collected: 06/17/24 00:00

Matrix: Solid

Date Received: 06/18/24 13:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 17:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/18/24 15:41	06/19/24 17:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 17:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/18/24 15:41	06/19/24 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	06/18/24 15:41	06/19/24 17:29	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/18/24 15:41	06/19/24 17:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/19/24 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/20/24 10:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/18/24 21:50	06/20/24 10:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		06/18/24 21:50	06/20/24 10:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/18/24 21:50	06/20/24 10:38	1
Total TPH	<49.9	U	49.9		mg/Kg		06/18/24 21:50	06/20/24 10:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	06/18/24 21:50	06/20/24 10:38	1
o-Terphenyl	128		70 - 130	06/18/24 21:50	06/20/24 10:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	344		5.02		mg/Kg			06/19/24 19:55	1

Client Sample ID: T-2 (5')

Lab Sample ID: 880-44909-12

Date Collected: 06/17/24 00:00

Matrix: Solid

Date Received: 06/18/24 13:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 17:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 17:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 17:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/18/24 15:41	06/19/24 17:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 17:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/18/24 15:41	06/19/24 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	06/18/24 15:41	06/19/24 17:50	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/18/24 15:41	06/19/24 17:50	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (5')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-12
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/19/24 17:50	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.8	U	49.8		mg/Kg			06/20/24 12:19	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/18/24 21:50	06/20/24 12:19	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/18/24 21:50	06/20/24 12:19	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/18/24 21:50	06/20/24 12:19	1	
Total TPH	<49.8	U	49.8		mg/Kg		06/18/24 21:50	06/20/24 12:19	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	105		70 - 130				06/18/24 21:50	06/20/24 12:19	1	
o-Terphenyl	116		70 - 130				06/18/24 21:50	06/20/24 12:19	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	108		4.97		mg/Kg			06/19/24 20:01	1	

Client Sample ID: T-3 (0-1')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-13
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 18:10	1	
Toluene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 18:10	1	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 18:10	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/18/24 15:41	06/19/24 18:10	1	
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 18:10	1	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/18/24 15:41	06/19/24 18:10	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	115		70 - 130				06/18/24 15:41	06/19/24 18:10	1	
1,4-Difluorobenzene (Surr)	99		70 - 130				06/18/24 15:41	06/19/24 18:10	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			06/19/24 18:10	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.1	U	50.1		mg/Kg			06/20/24 12:39	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/18/24 21:50	06/20/24 12:39	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (0-1')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-13
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/18/24 21:50	06/20/24 12:39	1	
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/18/24 21:50	06/20/24 12:39	1	
Total TPH	<50.1	U	50.1		mg/Kg		06/18/24 21:50	06/20/24 12:39	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	108		70 - 130				06/18/24 21:50	06/20/24 12:39	1	
o-Terphenyl	116		70 - 130				06/18/24 21:50	06/20/24 12:39	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	25000		251		mg/Kg			06/19/24 20:07	50	

Client Sample ID: T-3 (1.5')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-14
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 18:31	1	
Toluene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 18:31	1	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 18:31	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/18/24 15:41	06/19/24 18:31	1	
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 18:31	1	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/18/24 15:41	06/19/24 18:31	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	112		70 - 130				06/18/24 15:41	06/19/24 18:31	1	
1,4-Difluorobenzene (Surr)	99		70 - 130				06/18/24 15:41	06/19/24 18:31	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			06/19/24 18:31	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.6	U	49.6		mg/Kg			06/20/24 13:00	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		06/18/24 21:50	06/20/24 13:00	1	
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		06/18/24 21:50	06/20/24 13:00	1	
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		06/18/24 21:50	06/20/24 13:00	1	
Total TPH	<49.6	U	49.6		mg/Kg		06/18/24 21:50	06/20/24 13:00	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	108		70 - 130				06/18/24 21:50	06/20/24 13:00	1	
o-Terphenyl	115		70 - 130				06/18/24 21:50	06/20/24 13:00	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (1.5')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-14
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	925		4.98		mg/Kg			06/19/24 20:13	1

Client Sample ID: T-3 (2')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-15
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 18:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 18:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 18:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/18/24 15:41	06/19/24 18:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 18:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/18/24 15:41	06/19/24 18:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				06/18/24 15:41	06/19/24 18:51	1
1,4-Difluorobenzene (Surr)	99		70 - 130				06/18/24 15:41	06/19/24 18:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/19/24 18:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/20/24 13:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/18/24 21:50	06/20/24 13:21	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/18/24 21:50	06/20/24 13:21	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/18/24 21:50	06/20/24 13:21	1
Total TPH	<49.7	U	49.7		mg/Kg		06/18/24 21:50	06/20/24 13:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				06/18/24 21:50	06/20/24 13:21	1
o-Terphenyl	124		70 - 130				06/18/24 21:50	06/20/24 13:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		5.02		mg/Kg			06/19/24 20:31	1

Client Sample ID: T-3 (3')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-16
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/18/24 15:41	06/19/24 19:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/18/24 15:41	06/19/24 19:11	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (3')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-16
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/18/24 15:41	06/19/24 19:11	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/18/24 15:41	06/19/24 19:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/18/24 15:41	06/19/24 19:11	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/18/24 15:41	06/19/24 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				06/18/24 15:41	06/19/24 19:11	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/18/24 15:41	06/19/24 19:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/19/24 19:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/20/24 13:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/18/24 21:50	06/20/24 13:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/18/24 21:50	06/20/24 13:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/18/24 21:50	06/20/24 13:41	1
Total TPH	<49.9	U	49.9		mg/Kg		06/18/24 21:50	06/20/24 13:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				06/18/24 21:50	06/20/24 13:41	1
o-Terphenyl	127		70 - 130				06/18/24 21:50	06/20/24 13:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1830		25.3		mg/Kg			06/19/24 20:37	5

Client Sample ID: T-3 (4')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-17
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 19:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 19:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 19:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/18/24 15:41	06/19/24 19:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/18/24 15:41	06/19/24 19:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/18/24 15:41	06/19/24 19:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				06/18/24 15:41	06/19/24 19:32	1
1,4-Difluorobenzene (Surr)	99		70 - 130				06/18/24 15:41	06/19/24 19:32	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (4')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-17
Matrix: Solid

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			06/19/24 19:32	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0		mg/Kg			06/20/24 14:01	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 14:01	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 14:01	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 14:01	1	
Total TPH	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 14:01	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	114		70 - 130				06/18/24 21:50	06/20/24 14:01	1	
o-Terphenyl	122		70 - 130				06/18/24 21:50	06/20/24 14:01	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	705		5.04		mg/Kg			06/19/24 20:43	1	

Client Sample ID: T-3 (5')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-18
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		06/18/24 15:41	06/19/24 19:52	1	
Toluene	<0.00200	U	0.00200		mg/Kg		06/18/24 15:41	06/19/24 19:52	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/18/24 15:41	06/19/24 19:52	1	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/18/24 15:41	06/19/24 19:52	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/18/24 15:41	06/19/24 19:52	1	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/18/24 15:41	06/19/24 19:52	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	116		70 - 130				06/18/24 15:41	06/19/24 19:52	1	
1,4-Difluorobenzene (Surr)	99		70 - 130				06/18/24 15:41	06/19/24 19:52	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/19/24 19:52	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0		mg/Kg			06/20/24 14:22	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 14:22	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (5')

Lab Sample ID: 880-44909-18

Date Collected: 06/17/24 00:00

Matrix: Solid

Date Received: 06/18/24 13:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 14:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 14:22	1
Total TPH	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 14:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				06/18/24 21:50	06/20/24 14:22	1
o-Terphenyl	115		70 - 130				06/18/24 21:50	06/20/24 14:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	341		5.03		mg/Kg			06/19/24 20:48	1

Client Sample ID: T-3 (6')

Lab Sample ID: 880-44909-19

Date Collected: 06/17/24 00:00

Matrix: Solid

Date Received: 06/18/24 13:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/18/24 15:41	06/19/24 20:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/18/24 15:41	06/19/24 20:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/18/24 15:41	06/19/24 20:13	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/18/24 15:41	06/19/24 20:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/18/24 15:41	06/19/24 20:13	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/18/24 15:41	06/19/24 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				06/18/24 15:41	06/19/24 20:13	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/18/24 15:41	06/19/24 20:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/19/24 20:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			06/20/24 15:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		06/18/24 21:50	06/20/24 15:04	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		06/18/24 21:50	06/20/24 15:04	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		06/18/24 21:50	06/20/24 15:04	1
Total TPH	<49.6	U	49.6		mg/Kg		06/18/24 21:50	06/20/24 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				06/18/24 21:50	06/20/24 15:04	1
o-Terphenyl	118		70 - 130				06/18/24 21:50	06/20/24 15:04	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (6')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-19
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	793		4.97		mg/Kg			06/19/24 20:54	1

Client Sample ID: T-4 (0-1')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-20
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 20:33	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 20:33	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 20:33	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/18/24 15:41	06/19/24 20:33	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/18/24 15:41	06/19/24 20:33	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/18/24 15:41	06/19/24 20:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				06/18/24 15:41	06/19/24 20:33	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/18/24 15:41	06/19/24 20:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/19/24 20:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			06/20/24 15:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		06/18/24 21:50	06/20/24 15:24	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		06/18/24 21:50	06/20/24 15:24	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		06/18/24 21:50	06/20/24 15:24	1
Total TPH	<49.6	U	49.6		mg/Kg		06/18/24 21:50	06/20/24 15:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				06/18/24 21:50	06/20/24 15:24	1
o-Terphenyl	119		70 - 130				06/18/24 21:50	06/20/24 15:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9170		49.5		mg/Kg			06/19/24 21:00	10

Client Sample ID: T-4 (1.5')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-21
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/18/24 16:09	06/19/24 18:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/18/24 16:09	06/19/24 18:24	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-4 (1.5')

Lab Sample ID: 880-44909-21

Date Collected: 06/17/24 00:00

Matrix: Solid

Date Received: 06/18/24 13:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/18/24 16:09	06/19/24 18:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/18/24 16:09	06/19/24 18:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/18/24 16:09	06/19/24 18:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/18/24 16:09	06/19/24 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				06/18/24 16:09	06/19/24 18:24	1
1,4-Difluorobenzene (Surr)	114		70 - 130				06/18/24 16:09	06/19/24 18:24	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			06/19/24 18:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/20/24 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/18/24 21:50	06/20/24 15:44	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/18/24 21:50	06/20/24 15:44	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/18/24 21:50	06/20/24 15:44	1
Total TPH	<49.7	U	49.7		mg/Kg		06/18/24 21:50	06/20/24 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				06/18/24 21:50	06/20/24 15:44	1
o-Terphenyl	118		70 - 130				06/18/24 21:50	06/20/24 15:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4950		50.3		mg/Kg			06/19/24 21:18	10

Client Sample ID: T-4 (2')

Lab Sample ID: 880-44909-22

Date Collected: 06/17/24 00:00

Matrix: Solid

Date Received: 06/18/24 13:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/18/24 16:09	06/19/24 18:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/18/24 16:09	06/19/24 18:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/18/24 16:09	06/19/24 18:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/18/24 16:09	06/19/24 18:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/18/24 16:09	06/19/24 18:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/18/24 16:09	06/19/24 18:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				06/18/24 16:09	06/19/24 18:44	1
1,4-Difluorobenzene (Surr)	110		70 - 130				06/18/24 16:09	06/19/24 18:44	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-4 (2')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-22
Matrix: Solid

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			06/19/24 18:44	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.7	U	49.7		mg/Kg			06/20/24 16:05	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/18/24 21:50	06/20/24 16:05	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/18/24 21:50	06/20/24 16:05	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/18/24 21:50	06/20/24 16:05	1	
Total TPH	<49.7	U	49.7		mg/Kg		06/18/24 21:50	06/20/24 16:05	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	111		70 - 130				06/18/24 21:50	06/20/24 16:05	1	
o-Terphenyl	124		70 - 130				06/18/24 21:50	06/20/24 16:05	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	5850		49.7		mg/Kg			06/19/24 21:24	10	

Client Sample ID: T-4 (3')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-23
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00201	U	0.00201		mg/Kg		06/18/24 16:09	06/19/24 19:04	1	
Toluene	<0.00201	U	0.00201		mg/Kg		06/18/24 16:09	06/19/24 19:04	1	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/18/24 16:09	06/19/24 19:04	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/18/24 16:09	06/19/24 19:04	1	
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/18/24 16:09	06/19/24 19:04	1	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/18/24 16:09	06/19/24 19:04	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	124		70 - 130				06/18/24 16:09	06/19/24 19:04	1	
1,4-Difluorobenzene (Surr)	109		70 - 130				06/18/24 16:09	06/19/24 19:04	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/19/24 19:04	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.8	U	49.8		mg/Kg			06/20/24 16:25	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/18/24 21:50	06/20/24 16:25	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-4 (3')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-23
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/18/24 21:50	06/20/24 16:25	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/18/24 21:50	06/20/24 16:25	1	
Total TPH	<49.8	U	49.8		mg/Kg		06/18/24 21:50	06/20/24 16:25	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	117		70 - 130				06/18/24 21:50	06/20/24 16:25	1	
o-Terphenyl	125		70 - 130				06/18/24 21:50	06/20/24 16:25	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	917		5.05		mg/Kg			06/19/24 21:42	1	

Client Sample ID: T-4 (4')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-24
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00202	U	0.00202		mg/Kg		06/18/24 16:09	06/19/24 19:25	1	
Toluene	<0.00202	U	0.00202		mg/Kg		06/18/24 16:09	06/19/24 19:25	1	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/18/24 16:09	06/19/24 19:25	1	
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/18/24 16:09	06/19/24 19:25	1	
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/18/24 16:09	06/19/24 19:25	1	
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/18/24 16:09	06/19/24 19:25	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	123		70 - 130				06/18/24 16:09	06/19/24 19:25	1	
1,4-Difluorobenzene (Surr)	109		70 - 130				06/18/24 16:09	06/19/24 19:25	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/19/24 19:25	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0		mg/Kg			06/20/24 16:45	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 16:45	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 16:45	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 16:45	1	
Total TPH	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 16:45	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	113		70 - 130				06/18/24 21:50	06/20/24 16:45	1	
o-Terphenyl	120		70 - 130				06/18/24 21:50	06/20/24 16:45	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-4 (4')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-24
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		5.02		mg/Kg			06/19/24 21:48	1

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

Surrogate Summary

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-44904-A-2-E MS	Matrix Spike	111	98
880-44904-A-2-F MSD	Matrix Spike Duplicate	118	96
880-44909-1	T-1 (0-1')	116	101
880-44909-1 MS	T-1 (0-1')	110	97
880-44909-1 MSD	T-1 (0-1')	108	94
880-44909-2	T-1 (1.5')	113	99
880-44909-3	T-1 (2')	115	100
880-44909-4	T-1 (3')	112	100
880-44909-5	T-1 (4')	114	99
880-44909-6	T-1 (5')	112	99
880-44909-7	T-2 (0-1')	110	99
880-44909-8	T-2 (1.5')	113	99
880-44909-9	T-2 (2')	112	99
880-44909-10	T-2 (3')	107	93
880-44909-11	T-2 (4')	115	99
880-44909-12	T-2 (5')	115	99
880-44909-13	T-3 (0-1')	115	99
880-44909-14	T-3 (1.5')	112	99
880-44909-15	T-3 (2')	114	99
880-44909-16	T-3 (3')	114	100
880-44909-17	T-3 (4')	115	99
880-44909-18	T-3 (5')	116	99
880-44909-19	T-3 (6')	116	100
880-44909-20	T-4 (0-1')	116	100
880-44909-21	T-4 (1.5')	119	114
880-44909-22	T-4 (2')	115	110
880-44909-23	T-4 (3')	124	109
880-44909-24	T-4 (4')	123	109
LCS 880-83485/1-A	Lab Control Sample	109	98
LCS 880-83496/1-A	Lab Control Sample	105	104
LCSD 880-83485/2-A	Lab Control Sample Dup	108	97
LCSD 880-83496/2-A	Lab Control Sample Dup	110	100
MB 880-83485/5-A	Method Blank	112	95
MB 880-83496/5-A	Method Blank	189 S1+	137 S1+
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-44849-A-41-E MS	Matrix Spike	95	90
880-44849-A-41-F MSD	Matrix Spike Duplicate	105	100
880-44909-1	T-1 (0-1')	188 S1+	202 S1+
880-44909-2	T-1 (1.5')	91	101
880-44909-3	T-1 (2')	80	85

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-44909-1

Project/Site: Mesa Verde SWD (4.16.24)

SDG: Eddy County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-44909-4	T-1 (3')	94	99
880-44909-5	T-1 (4')	91	100
880-44909-6	T-1 (5')	95	104
880-44909-7	T-2 (0-1')	96	103
880-44909-8	T-2 (1.5')	96	104
880-44909-9	T-2 (2')	91	99
880-44909-10	T-2 (3')	90	97
880-44909-11	T-2 (4')	118	128
880-44909-11 MS	T-2 (4')	109	109
880-44909-11 MSD	T-2 (4')	101	104
880-44909-12	T-2 (5')	105	116
880-44909-13	T-3 (0-1')	108	116
880-44909-14	T-3 (1.5')	108	115
880-44909-15	T-3 (2')	118	124
880-44909-16	T-3 (3')	117	127
880-44909-17	T-3 (4')	114	122
880-44909-18	T-3 (5')	110	115
880-44909-19	T-3 (6')	108	118
880-44909-20	T-4 (0-1')	114	119
880-44909-21	T-4 (1.5')	111	118
880-44909-22	T-4 (2')	111	124
880-44909-23	T-4 (3')	117	125
880-44909-24	T-4 (4')	113	120
LCS 880-83392/2-A	Lab Control Sample	120	117
LCS 880-83520/2-A	Lab Control Sample	127	120
LCSD 880-83392/3-A	Lab Control Sample Dup	121	119
LCSD 880-83520/3-A	Lab Control Sample Dup	123	121
MB 880-83392/1-A	Method Blank	100	108
MB 880-83520/1-A	Method Blank	102	108
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-83485/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 83535							Prep Batch: 83485		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/18/24 15:41	06/19/24 11:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/18/24 15:41	06/19/24 11:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/18/24 15:41	06/19/24 11:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/18/24 15:41	06/19/24 11:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/18/24 15:41	06/19/24 11:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/18/24 15:41	06/19/24 11:16	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				06/18/24 15:41	06/19/24 11:16	1
1,4-Difluorobenzene (Surr)	95		70 - 130				06/18/24 15:41	06/19/24 11:16	1

Lab Sample ID: LCS 880-83485/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 83535							Prep Batch: 83485		
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene		0.100	0.1099		mg/Kg		110	70 - 130	
Toluene		0.100	0.1009		mg/Kg		101	70 - 130	
Ethylbenzene		0.100	0.1007		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene		0.200	0.2103		mg/Kg		105	70 - 130	
o-Xylene		0.100	0.1045		mg/Kg		105	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	109		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: LCSD 880-83485/2-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 83535							Prep Batch: 83485			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.1052		mg/Kg		105	70 - 130	4	35
Toluene		0.100	0.09669		mg/Kg		97	70 - 130	4	35
Ethylbenzene		0.100	0.09648		mg/Kg		96	70 - 130	4	35
m-Xylene & p-Xylene		0.200	0.2016		mg/Kg		101	70 - 130	4	35
o-Xylene		0.100	0.09990		mg/Kg		100	70 - 130	5	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	108		70 - 130							
1,4-Difluorobenzene (Surr)	97		70 - 130							

Lab Sample ID: 880-44909-1 MS							Client Sample ID: T-1 (0-1')		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 83535							Prep Batch: 83485		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.0996	0.1068		mg/Kg		107	70 - 130
Toluene	<0.00199	U F1	0.0996	0.09699		mg/Kg		97	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44909-1 MS
Matrix: Solid
Analysis Batch: 83535

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 83485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1	0.0996	0.09442		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1966		mg/Kg		99	70 - 130
o-Xylene	<0.00199	U F1	0.0996	0.09797		mg/Kg		98	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	110		70 - 130						
1,4-Difluorobenzene (Surr)	97		70 - 130						

Lab Sample ID: 880-44909-1 MSD
Matrix: Solid
Analysis Batch: 83535

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 83485

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	<0.00199	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00199	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	<0.00403	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00199	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	108		70 - 130								
1,4-Difluorobenzene (Surr)	94		70 - 130								

Lab Sample ID: MB 880-83496/5-A
Matrix: Solid
Analysis Batch: 83538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83496

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/18/24 16:09	06/19/24 12:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/18/24 16:09	06/19/24 12:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/18/24 16:09	06/19/24 12:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/18/24 16:09	06/19/24 12:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/18/24 16:09	06/19/24 12:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/18/24 16:09	06/19/24 12:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
4-Bromofluorobenzene (Surr)	189	S1+	70 - 130						
1,4-Difluorobenzene (Surr)	137	S1+	70 - 130						

Lab Sample ID: LCS 880-83496/1-A
Matrix: Solid
Analysis Batch: 83538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83496

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1090		mg/Kg		109	70 - 130
Toluene	0.100	0.08969		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.1045		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2018		mg/Kg		101	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-83496/1-A

Matrix: Solid

Analysis Batch: 83538

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 83496

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1048		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-83496/2-A

Matrix: Solid

Analysis Batch: 83538

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 83496

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1052		mg/Kg		105	70 - 130	4	35
Toluene	0.100	0.09462		mg/Kg		95	70 - 130	5	35
Ethylbenzene	0.100	0.09930		mg/Kg		99	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2073		mg/Kg		104	70 - 130	3	35
o-Xylene	0.100	0.1088		mg/Kg		109	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-44904-A-2-E MS

Matrix: Solid

Analysis Batch: 83538

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 83496

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0996	0.09948		mg/Kg		100	70 - 130
Toluene	<0.00201	U	0.0996	0.08936		mg/Kg		90	70 - 130
Ethylbenzene	<0.00201	U	0.0996	0.08699		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1705		mg/Kg		86	70 - 130
o-Xylene	<0.00201	U	0.0996	0.09645		mg/Kg		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-44904-A-2-F MSD

Matrix: Solid

Analysis Batch: 83538

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 83496

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.101	0.09714		mg/Kg		96	70 - 130	2	35
Toluene	<0.00201	U	0.101	0.08685		mg/Kg		86	70 - 130	3	35
Ethylbenzene	<0.00201	U	0.101	0.08408		mg/Kg		83	70 - 130	3	35
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1642		mg/Kg		81	70 - 130	4	35
o-Xylene	<0.00201	U	0.101	0.09457		mg/Kg		94	70 - 130	2	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44904-A-2-F MSD				Client Sample ID: Matrix Spike Duplicate			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 83538				Prep Batch: 83496			
	MSD	MSD					
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	118		70 - 130				
1,4-Difluorobenzene (Surr)	96		70 - 130				

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

Lab Sample ID: MB 880-83392/1-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 83524							Prep Batch: 83392		
	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		06/17/24 16:37	06/19/24 08:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/17/24 16:37	06/19/24 08:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/17/24 16:37	06/19/24 08:17	1
Total TPH	<50.0	U	50.0		mg/Kg		06/17/24 16:37	06/19/24 08:17	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				06/17/24 16:37	06/19/24 08:17	1
o-Terphenyl	108		70 - 130				06/17/24 16:37	06/19/24 08:17	1

Lab Sample ID: LCS 880-83392/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 83524					Prep Batch: 83392				
Analyte	Spike			LCS	LCS	Unit	D	%Rec	%Rec
	Added			Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000			937.2		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000			925.9		mg/Kg		93	70 - 130
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	120		70 - 130						
o-Terphenyl	117		70 - 130						

Lab Sample ID: LCSD 880-83392/3-A					Client Sample ID: Lab Control Sample Dup						
Matrix: Solid					Prep Type: Total/NA						
Analysis Batch: 83524					Prep Batch: 83392						
			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	958.7		mg/Kg		96	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	909.6		mg/Kg		91	70 - 130	2	20
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	121		70 - 130								
o-Terphenyl	119		70 - 130								

QC Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44849-A-41-E MS
Matrix: Solid
Analysis Batch: 83524

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 83392

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F2	1000	943.5		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1000	591.0	F1	mg/Kg		59	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	95		70 - 130								
o-Terphenyl	90		70 - 130								

Lab Sample ID: 880-44849-A-41-F MSD
Matrix: Solid
Analysis Batch: 83524

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 83392

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F2	1000	1213	F2	mg/Kg		119	70 - 130	25	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1000	662.2	F1	mg/Kg		66	70 - 130	11	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	100		70 - 130								

Lab Sample ID: MB 880-83520/1-A
Matrix: Solid
Analysis Batch: 83641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83520

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 08:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 08:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 08:14	1
Total TPH	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 08:14	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	102		70 - 130				06/18/24 21:50	06/20/24 08:14	1
o-Terphenyl	108		70 - 130				06/18/24 21:50	06/20/24 08:14	1

Lab Sample ID: LCS 880-83520/2-A
Matrix: Solid
Analysis Batch: 83641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83520

Analyte	Spike	LCS	Unit	D	%Rec	%Rec
	Added	Result				Qualifier
Gasoline Range Organics (GRO)-C6-C10	1000	1002	mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	943.3	mg/Kg		94	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-83520/2-A
Matrix: Solid
Analysis Batch: 83641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83520

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	127		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: LCSD 880-83520/3-A
Matrix: Solid
Analysis Batch: 83641

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 83520

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	888.9		mg/Kg		89	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	891.1		mg/Kg		89	70 - 130	6	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: 880-44909-11 MS
Matrix: Solid
Analysis Batch: 83641

Client Sample ID: T-2 (4')
Prep Type: Total/NA
Prep Batch: 83520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	937.6		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	555.6	F1	mg/Kg		54	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: 880-44909-11 MSD
Matrix: Solid
Analysis Batch: 83641

Client Sample ID: T-2 (4')
Prep Type: Total/NA
Prep Batch: 83520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	894.8		mg/Kg		88	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	511.7	F1	mg/Kg		50	70 - 130	8	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	104		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-83552/1-A

Matrix: Solid

Analysis Batch: 83583

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/19/24 15:31	1

Lab Sample ID: LCS 880-83552/2-A

Matrix: Solid

Analysis Batch: 83583

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	234.2		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-83552/3-A

Matrix: Solid

Analysis Batch: 83583

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	235.7		mg/Kg		94	90 - 110	1	20

Lab Sample ID: 880-44890-A-8-C MS

Matrix: Solid

Analysis Batch: 83583

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	173		249	423.5		mg/Kg		101	90 - 110

Lab Sample ID: 880-44890-A-8-D MSD

Matrix: Solid

Analysis Batch: 83583

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	173		249	422.7		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-44890-A-18-C MS

Matrix: Solid

Analysis Batch: 83583

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	19600		12500	33160		mg/Kg		109	90 - 110

Lab Sample ID: 880-44890-A-18-D MSD

Matrix: Solid

Analysis Batch: 83583

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	19600		12500	33370		mg/Kg		110	90 - 110	1	20

Lab Sample ID: MB 880-83553/1-A

Matrix: Solid

Analysis Batch: 83590

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/19/24 19:19	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-83553/2-A Matrix: Solid Analysis Batch: 83590				Client Sample ID: Lab Control Sample Prep Type: Soluble						
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride			250	226.0		mg/Kg		90	90 - 110	

Lab Sample ID: LCSD 880-83553/3-A Matrix: Solid Analysis Batch: 83590				Client Sample ID: Lab Control Sample Dup Prep Type: Soluble						
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Chloride			250	226.7		mg/Kg		91	90 - 110	0 20

Lab Sample ID: 880-44909-10 MS Matrix: Solid Analysis Batch: 83590				Client Sample ID: T-2 (3') Prep Type: Soluble						
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	1870		1250	3092		mg/Kg		98	90 - 110	

Lab Sample ID: 880-44909-10 MSD Matrix: Solid Analysis Batch: 83590				Client Sample ID: T-2 (3') Prep Type: Soluble						
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Chloride	1870		1250	3056		mg/Kg		95	90 - 110	1 20

Lab Sample ID: 880-44909-20 MS Matrix: Solid Analysis Batch: 83590				Client Sample ID: T-4 (0-1') Prep Type: Soluble						
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	9170		2480	11710		mg/Kg		103	90 - 110	

Lab Sample ID: 880-44909-20 MSD Matrix: Solid Analysis Batch: 83590				Client Sample ID: T-4 (0-1') Prep Type: Soluble						
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Chloride	9170		2480	11650		mg/Kg		100	90 - 110	1 20

QC Association Summary

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 83485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-1	T-1 (0-1')	Total/NA	Solid	5035	
880-44909-2	T-1 (1.5')	Total/NA	Solid	5035	
880-44909-3	T-1 (2')	Total/NA	Solid	5035	
880-44909-4	T-1 (3')	Total/NA	Solid	5035	
880-44909-5	T-1 (4')	Total/NA	Solid	5035	
880-44909-6	T-1 (5')	Total/NA	Solid	5035	
880-44909-7	T-2 (0-1')	Total/NA	Solid	5035	
880-44909-8	T-2 (1.5')	Total/NA	Solid	5035	
880-44909-9	T-2 (2')	Total/NA	Solid	5035	
880-44909-10	T-2 (3')	Total/NA	Solid	5035	
880-44909-11	T-2 (4')	Total/NA	Solid	5035	
880-44909-12	T-2 (5')	Total/NA	Solid	5035	
880-44909-13	T-3 (0-1')	Total/NA	Solid	5035	
880-44909-14	T-3 (1.5')	Total/NA	Solid	5035	
880-44909-15	T-3 (2')	Total/NA	Solid	5035	
880-44909-16	T-3 (3')	Total/NA	Solid	5035	
880-44909-17	T-3 (4')	Total/NA	Solid	5035	
880-44909-18	T-3 (5')	Total/NA	Solid	5035	
880-44909-19	T-3 (6')	Total/NA	Solid	5035	
880-44909-20	T-4 (0-1')	Total/NA	Solid	5035	
MB 880-83485/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-83485/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-83485/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-44909-1 MS	T-1 (0-1')	Total/NA	Solid	5035	
880-44909-1 MSD	T-1 (0-1')	Total/NA	Solid	5035	

Prep Batch: 83496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-21	T-4 (1.5')	Total/NA	Solid	5035	
880-44909-22	T-4 (2')	Total/NA	Solid	5035	
880-44909-23	T-4 (3')	Total/NA	Solid	5035	
880-44909-24	T-4 (4')	Total/NA	Solid	5035	
MB 880-83496/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-83496/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-83496/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-44904-A-2-E MS	Matrix Spike	Total/NA	Solid	5035	
880-44904-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 83535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-1	T-1 (0-1')	Total/NA	Solid	8021B	83485
880-44909-2	T-1 (1.5')	Total/NA	Solid	8021B	83485
880-44909-3	T-1 (2')	Total/NA	Solid	8021B	83485
880-44909-4	T-1 (3')	Total/NA	Solid	8021B	83485
880-44909-5	T-1 (4')	Total/NA	Solid	8021B	83485
880-44909-6	T-1 (5')	Total/NA	Solid	8021B	83485
880-44909-7	T-2 (0-1')	Total/NA	Solid	8021B	83485
880-44909-8	T-2 (1.5')	Total/NA	Solid	8021B	83485
880-44909-9	T-2 (2')	Total/NA	Solid	8021B	83485
880-44909-10	T-2 (3')	Total/NA	Solid	8021B	83485
880-44909-11	T-2 (4')	Total/NA	Solid	8021B	83485

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QC Association Summary

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 83535 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-12	T-2 (5')	Total/NA	Solid	8021B	83485
880-44909-13	T-3 (0-1')	Total/NA	Solid	8021B	83485
880-44909-14	T-3 (1.5')	Total/NA	Solid	8021B	83485
880-44909-15	T-3 (2')	Total/NA	Solid	8021B	83485
880-44909-16	T-3 (3')	Total/NA	Solid	8021B	83485
880-44909-17	T-3 (4')	Total/NA	Solid	8021B	83485
880-44909-18	T-3 (5')	Total/NA	Solid	8021B	83485
880-44909-19	T-3 (6')	Total/NA	Solid	8021B	83485
880-44909-20	T-4 (0-1')	Total/NA	Solid	8021B	83485
MB 880-83485/5-A	Method Blank	Total/NA	Solid	8021B	83485
LCS 880-83485/1-A	Lab Control Sample	Total/NA	Solid	8021B	83485
LCSD 880-83485/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	83485
880-44909-1 MS	T-1 (0-1')	Total/NA	Solid	8021B	83485
880-44909-1 MSD	T-1 (0-1')	Total/NA	Solid	8021B	83485

Analysis Batch: 83538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-21	T-4 (1.5')	Total/NA	Solid	8021B	83496
880-44909-22	T-4 (2')	Total/NA	Solid	8021B	83496
880-44909-23	T-4 (3')	Total/NA	Solid	8021B	83496
880-44909-24	T-4 (4')	Total/NA	Solid	8021B	83496
MB 880-83496/5-A	Method Blank	Total/NA	Solid	8021B	83496
LCS 880-83496/1-A	Lab Control Sample	Total/NA	Solid	8021B	83496
LCSD 880-83496/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	83496
880-44904-A-2-E MS	Matrix Spike	Total/NA	Solid	8021B	83496
880-44904-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	83496

Analysis Batch: 83693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-1	T-1 (0-1')	Total/NA	Solid	Total BTEX	
880-44909-2	T-1 (1.5')	Total/NA	Solid	Total BTEX	
880-44909-3	T-1 (2')	Total/NA	Solid	Total BTEX	
880-44909-4	T-1 (3')	Total/NA	Solid	Total BTEX	
880-44909-5	T-1 (4')	Total/NA	Solid	Total BTEX	
880-44909-6	T-1 (5')	Total/NA	Solid	Total BTEX	
880-44909-7	T-2 (0-1')	Total/NA	Solid	Total BTEX	
880-44909-8	T-2 (1.5')	Total/NA	Solid	Total BTEX	
880-44909-9	T-2 (2')	Total/NA	Solid	Total BTEX	
880-44909-10	T-2 (3')	Total/NA	Solid	Total BTEX	
880-44909-11	T-2 (4')	Total/NA	Solid	Total BTEX	
880-44909-12	T-2 (5')	Total/NA	Solid	Total BTEX	
880-44909-13	T-3 (0-1')	Total/NA	Solid	Total BTEX	
880-44909-14	T-3 (1.5')	Total/NA	Solid	Total BTEX	
880-44909-15	T-3 (2')	Total/NA	Solid	Total BTEX	
880-44909-16	T-3 (3')	Total/NA	Solid	Total BTEX	
880-44909-17	T-3 (4')	Total/NA	Solid	Total BTEX	
880-44909-18	T-3 (5')	Total/NA	Solid	Total BTEX	
880-44909-19	T-3 (6')	Total/NA	Solid	Total BTEX	
880-44909-20	T-4 (0-1')	Total/NA	Solid	Total BTEX	
880-44909-21	T-4 (1.5')	Total/NA	Solid	Total BTEX	
880-44909-22	T-4 (2')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 83693 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-23	T-4 (3')	Total/NA	Solid	Total BTEX	
880-44909-24	T-4 (4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 83392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-1	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-44909-2	T-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-44909-3	T-1 (2')	Total/NA	Solid	8015NM Prep	
880-44909-4	T-1 (3')	Total/NA	Solid	8015NM Prep	
880-44909-5	T-1 (4')	Total/NA	Solid	8015NM Prep	
880-44909-6	T-1 (5')	Total/NA	Solid	8015NM Prep	
880-44909-7	T-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-44909-8	T-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-44909-9	T-2 (2')	Total/NA	Solid	8015NM Prep	
880-44909-10	T-2 (3')	Total/NA	Solid	8015NM Prep	
MB 880-83392/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-83392/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-83392/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-44849-A-41-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-44849-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 83520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-11	T-2 (4')	Total/NA	Solid	8015NM Prep	
880-44909-12	T-2 (5')	Total/NA	Solid	8015NM Prep	
880-44909-13	T-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-44909-14	T-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-44909-15	T-3 (2')	Total/NA	Solid	8015NM Prep	
880-44909-16	T-3 (3')	Total/NA	Solid	8015NM Prep	
880-44909-17	T-3 (4')	Total/NA	Solid	8015NM Prep	
880-44909-18	T-3 (5')	Total/NA	Solid	8015NM Prep	
880-44909-19	T-3 (6')	Total/NA	Solid	8015NM Prep	
880-44909-20	T-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-44909-21	T-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-44909-22	T-4 (2')	Total/NA	Solid	8015NM Prep	
880-44909-23	T-4 (3')	Total/NA	Solid	8015NM Prep	
880-44909-24	T-4 (4')	Total/NA	Solid	8015NM Prep	
MB 880-83520/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-83520/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-83520/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-44909-11 MS	T-2 (4')	Total/NA	Solid	8015NM Prep	
880-44909-11 MSD	T-2 (4')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 83524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-1	T-1 (0-1')	Total/NA	Solid	8015B NM	83392
880-44909-2	T-1 (1.5')	Total/NA	Solid	8015B NM	83392
880-44909-3	T-1 (2')	Total/NA	Solid	8015B NM	83392
880-44909-4	T-1 (3')	Total/NA	Solid	8015B NM	83392

QC Association Summary

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 83524 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-5	T-1 (4')	Total/NA	Solid	8015B NM	83392
880-44909-6	T-1 (5')	Total/NA	Solid	8015B NM	83392
880-44909-7	T-2 (0-1')	Total/NA	Solid	8015B NM	83392
880-44909-8	T-2 (1.5')	Total/NA	Solid	8015B NM	83392
880-44909-9	T-2 (2')	Total/NA	Solid	8015B NM	83392
880-44909-10	T-2 (3')	Total/NA	Solid	8015B NM	83392
MB 880-83392/1-A	Method Blank	Total/NA	Solid	8015B NM	83392
LCS 880-83392/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	83392
LCSD 880-83392/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	83392
880-44849-A-41-E MS	Matrix Spike	Total/NA	Solid	8015B NM	83392
880-44849-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	83392

Analysis Batch: 83641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-11	T-2 (4')	Total/NA	Solid	8015B NM	83520
880-44909-12	T-2 (5')	Total/NA	Solid	8015B NM	83520
880-44909-13	T-3 (0-1')	Total/NA	Solid	8015B NM	83520
880-44909-14	T-3 (1.5')	Total/NA	Solid	8015B NM	83520
880-44909-15	T-3 (2')	Total/NA	Solid	8015B NM	83520
880-44909-16	T-3 (3')	Total/NA	Solid	8015B NM	83520
880-44909-17	T-3 (4')	Total/NA	Solid	8015B NM	83520
880-44909-18	T-3 (5')	Total/NA	Solid	8015B NM	83520
880-44909-19	T-3 (6')	Total/NA	Solid	8015B NM	83520
880-44909-20	T-4 (0-1')	Total/NA	Solid	8015B NM	83520
880-44909-21	T-4 (1.5')	Total/NA	Solid	8015B NM	83520
880-44909-22	T-4 (2')	Total/NA	Solid	8015B NM	83520
880-44909-23	T-4 (3')	Total/NA	Solid	8015B NM	83520
880-44909-24	T-4 (4')	Total/NA	Solid	8015B NM	83520
MB 880-83520/1-A	Method Blank	Total/NA	Solid	8015B NM	83520
LCS 880-83520/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	83520
LCSD 880-83520/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	83520
880-44909-11 MS	T-2 (4')	Total/NA	Solid	8015B NM	83520
880-44909-11 MSD	T-2 (4')	Total/NA	Solid	8015B NM	83520

Analysis Batch: 83680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-1	T-1 (0-1')	Total/NA	Solid	8015 NM	
880-44909-2	T-1 (1.5')	Total/NA	Solid	8015 NM	
880-44909-3	T-1 (2')	Total/NA	Solid	8015 NM	
880-44909-4	T-1 (3')	Total/NA	Solid	8015 NM	
880-44909-5	T-1 (4')	Total/NA	Solid	8015 NM	
880-44909-6	T-1 (5')	Total/NA	Solid	8015 NM	
880-44909-7	T-2 (0-1')	Total/NA	Solid	8015 NM	
880-44909-8	T-2 (1.5')	Total/NA	Solid	8015 NM	
880-44909-9	T-2 (2')	Total/NA	Solid	8015 NM	
880-44909-10	T-2 (3')	Total/NA	Solid	8015 NM	
880-44909-11	T-2 (4')	Total/NA	Solid	8015 NM	
880-44909-12	T-2 (5')	Total/NA	Solid	8015 NM	
880-44909-13	T-3 (0-1')	Total/NA	Solid	8015 NM	
880-44909-14	T-3 (1.5')	Total/NA	Solid	8015 NM	
880-44909-15	T-3 (2')	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 83680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-16	T-3 (3')	Total/NA	Solid	8015 NM	
880-44909-17	T-3 (4')	Total/NA	Solid	8015 NM	
880-44909-18	T-3 (5')	Total/NA	Solid	8015 NM	
880-44909-19	T-3 (6')	Total/NA	Solid	8015 NM	
880-44909-20	T-4 (0-1')	Total/NA	Solid	8015 NM	
880-44909-21	T-4 (1.5')	Total/NA	Solid	8015 NM	
880-44909-22	T-4 (2')	Total/NA	Solid	8015 NM	
880-44909-23	T-4 (3')	Total/NA	Solid	8015 NM	
880-44909-24	T-4 (4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 83552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-1	T-1 (0-1')	Soluble	Solid	DI Leach	
880-44909-2	T-1 (1.5')	Soluble	Solid	DI Leach	
880-44909-3	T-1 (2')	Soluble	Solid	DI Leach	
880-44909-4	T-1 (3')	Soluble	Solid	DI Leach	
880-44909-5	T-1 (4')	Soluble	Solid	DI Leach	
880-44909-6	T-1 (5')	Soluble	Solid	DI Leach	
880-44909-7	T-2 (0-1')	Soluble	Solid	DI Leach	
880-44909-8	T-2 (1.5')	Soluble	Solid	DI Leach	
880-44909-9	T-2 (2')	Soluble	Solid	DI Leach	
MB 880-83552/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-83552/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-83552/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-44890-A-8-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-44890-A-8-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-44890-A-18-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-44890-A-18-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 83553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-10	T-2 (3')	Soluble	Solid	DI Leach	
880-44909-11	T-2 (4')	Soluble	Solid	DI Leach	
880-44909-12	T-2 (5')	Soluble	Solid	DI Leach	
880-44909-13	T-3 (0-1')	Soluble	Solid	DI Leach	
880-44909-14	T-3 (1.5')	Soluble	Solid	DI Leach	
880-44909-15	T-3 (2')	Soluble	Solid	DI Leach	
880-44909-16	T-3 (3')	Soluble	Solid	DI Leach	
880-44909-17	T-3 (4')	Soluble	Solid	DI Leach	
880-44909-18	T-3 (5')	Soluble	Solid	DI Leach	
880-44909-19	T-3 (6')	Soluble	Solid	DI Leach	
880-44909-20	T-4 (0-1')	Soluble	Solid	DI Leach	
880-44909-21	T-4 (1.5')	Soluble	Solid	DI Leach	
880-44909-22	T-4 (2')	Soluble	Solid	DI Leach	
880-44909-23	T-4 (3')	Soluble	Solid	DI Leach	
880-44909-24	T-4 (4')	Soluble	Solid	DI Leach	
MB 880-83553/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-83553/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-83553/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 83553 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-10 MS	T-2 (3')	Soluble	Solid	DI Leach	
880-44909-10 MSD	T-2 (3')	Soluble	Solid	DI Leach	
880-44909-20 MS	T-4 (0-1')	Soluble	Solid	DI Leach	
880-44909-20 MSD	T-4 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 83583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-1	T-1 (0-1')	Soluble	Solid	300.0	83552
880-44909-2	T-1 (1.5')	Soluble	Solid	300.0	83552
880-44909-3	T-1 (2')	Soluble	Solid	300.0	83552
880-44909-4	T-1 (3')	Soluble	Solid	300.0	83552
880-44909-5	T-1 (4')	Soluble	Solid	300.0	83552
880-44909-6	T-1 (5')	Soluble	Solid	300.0	83552
880-44909-7	T-2 (0-1')	Soluble	Solid	300.0	83552
880-44909-8	T-2 (1.5')	Soluble	Solid	300.0	83552
880-44909-9	T-2 (2')	Soluble	Solid	300.0	83552
MB 880-83552/1-A	Method Blank	Soluble	Solid	300.0	83552
LCS 880-83552/2-A	Lab Control Sample	Soluble	Solid	300.0	83552
LCSD 880-83552/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	83552
880-44890-A-8-C MS	Matrix Spike	Soluble	Solid	300.0	83552
880-44890-A-8-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	83552
880-44890-A-18-C MS	Matrix Spike	Soluble	Solid	300.0	83552
880-44890-A-18-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	83552

Analysis Batch: 83590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44909-10	T-2 (3')	Soluble	Solid	300.0	83553
880-44909-11	T-2 (4')	Soluble	Solid	300.0	83553
880-44909-12	T-2 (5')	Soluble	Solid	300.0	83553
880-44909-13	T-3 (0-1')	Soluble	Solid	300.0	83553
880-44909-14	T-3 (1.5')	Soluble	Solid	300.0	83553
880-44909-15	T-3 (2')	Soluble	Solid	300.0	83553
880-44909-16	T-3 (3')	Soluble	Solid	300.0	83553
880-44909-17	T-3 (4')	Soluble	Solid	300.0	83553
880-44909-18	T-3 (5')	Soluble	Solid	300.0	83553
880-44909-19	T-3 (6')	Soluble	Solid	300.0	83553
880-44909-20	T-4 (0-1')	Soluble	Solid	300.0	83553
880-44909-21	T-4 (1.5')	Soluble	Solid	300.0	83553
880-44909-22	T-4 (2')	Soluble	Solid	300.0	83553
880-44909-23	T-4 (3')	Soluble	Solid	300.0	83553
880-44909-24	T-4 (4')	Soluble	Solid	300.0	83553
MB 880-83553/1-A	Method Blank	Soluble	Solid	300.0	83553
LCS 880-83553/2-A	Lab Control Sample	Soluble	Solid	300.0	83553
LCSD 880-83553/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	83553
880-44909-10 MS	T-2 (3')	Soluble	Solid	300.0	83553
880-44909-10 MSD	T-2 (3')	Soluble	Solid	300.0	83553
880-44909-20 MS	T-4 (0-1')	Soluble	Solid	300.0	83553
880-44909-20 MSD	T-4 (0-1')	Soluble	Solid	300.0	83553

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Lab Chronicle

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (0-1')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 11:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 11:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/19/24 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83392	06/17/24 16:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83524	06/19/24 15:03	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	83552	06/19/24 10:48	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	83583	06/19/24 17:12	CH	EET MID

Client Sample ID: T-1 (1.5')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 12:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 12:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/19/24 15:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	83392	06/17/24 16:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83524	06/19/24 15:24	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	83552	06/19/24 10:48	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	83583	06/19/24 17:17	CH	EET MID

Client Sample ID: T-1 (2')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 12:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 12:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/19/24 15:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	83392	06/17/24 16:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83524	06/19/24 15:44	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	83552	06/19/24 10:48	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	83583	06/19/24 17:32	CH	EET MID

Client Sample ID: T-1 (3')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 12:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 12:59	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (3')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			83680	06/19/24 16:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	83392	06/17/24 16:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83524	06/19/24 16:05	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	83552	06/19/24 10:48	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	83583	06/19/24 17:37	CH	EET MID

Client Sample ID: T-1 (4')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 13:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 13:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/19/24 16:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83392	06/17/24 16:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83524	06/19/24 16:25	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	83552	06/19/24 10:48	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83583	06/19/24 17:42	CH	EET MID

Client Sample ID: T-1 (5')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 13:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/19/24 16:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83392	06/17/24 16:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83524	06/19/24 16:46	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	83552	06/19/24 10:48	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83583	06/19/24 17:47	CH	EET MID

Client Sample ID: T-2 (0-1')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 14:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 14:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/19/24 17:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	83392	06/17/24 16:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83524	06/19/24 17:06	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (0-1')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	83552	06/19/24 10:48	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	83583	06/19/24 17:52	CH	EET MID

Client Sample ID: T-2 (1.5')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 14:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 14:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/19/24 17:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	83392	06/17/24 16:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83524	06/19/24 17:27	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	83552	06/19/24 10:48	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83583	06/19/24 17:57	CH	EET MID

Client Sample ID: T-2 (2')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 14:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 14:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/19/24 17:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83392	06/17/24 16:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83524	06/19/24 17:47	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	83552	06/19/24 10:48	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	83583	06/19/24 18:02	CH	EET MID

Client Sample ID: T-2 (3')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 15:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 15:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/19/24 18:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83392	06/17/24 16:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83524	06/19/24 18:08	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	83553	06/19/24 10:50	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	83590	06/19/24 19:37	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (4')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 17:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 17:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/20/24 10:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	83520	06/18/24 21:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83641	06/20/24 10:38	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	83553	06/19/24 10:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83590	06/19/24 19:55	CH	EET MID

Client Sample ID: T-2 (5')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 17:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 17:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/20/24 12:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83520	06/18/24 21:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83641	06/20/24 12:19	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	83553	06/19/24 10:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83590	06/19/24 20:01	CH	EET MID

Client Sample ID: T-3 (0-1')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 18:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 18:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/20/24 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	83520	06/18/24 21:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83641	06/20/24 12:39	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	83553	06/19/24 10:50	SA	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	83590	06/19/24 20:07	CH	EET MID

Client Sample ID: T-3 (1.5')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 18:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 18:31	SM	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (1.5')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			83680	06/20/24 13:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	83520	06/18/24 21:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83641	06/20/24 13:00	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	83553	06/19/24 10:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83590	06/19/24 20:13	CH	EET MID

Client Sample ID: T-3 (2')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 18:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 18:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/20/24 13:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	83520	06/18/24 21:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83641	06/20/24 13:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	83553	06/19/24 10:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83590	06/19/24 20:31	CH	EET MID

Client Sample ID: T-3 (3')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 19:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 19:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/20/24 13:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	83520	06/18/24 21:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83641	06/20/24 13:41	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	83553	06/19/24 10:50	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	83590	06/19/24 20:37	CH	EET MID

Client Sample ID: T-3 (4')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 19:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 19:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/20/24 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83520	06/18/24 21:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83641	06/20/24 14:01	SM	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (4')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	83553	06/19/24 10:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83590	06/19/24 20:43	CH	EET MID

Client Sample ID: T-3 (5')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 19:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 19:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/20/24 14:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83520	06/18/24 21:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83641	06/20/24 14:22	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	83553	06/19/24 10:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83590	06/19/24 20:48	CH	EET MID

Client Sample ID: T-3 (6')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 20:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 20:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/20/24 15:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	83520	06/18/24 21:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83641	06/20/24 15:04	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	83553	06/19/24 10:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83590	06/19/24 20:54	CH	EET MID

Client Sample ID: T-4 (0-1')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	83485	06/18/24 15:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83535	06/19/24 20:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 20:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/20/24 15:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	83520	06/18/24 21:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83641	06/20/24 15:24	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	83553	06/19/24 10:50	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	83590	06/19/24 21:00	CH	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-4 (1.5')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	83496	06/18/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83538	06/19/24 18:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 18:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/20/24 15:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	83520	06/18/24 21:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83641	06/20/24 15:44	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	83553	06/19/24 10:50	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	83590	06/19/24 21:18	CH	EET MID

Client Sample ID: T-4 (2')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	83496	06/18/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83538	06/19/24 18:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 18:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/20/24 16:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	83520	06/18/24 21:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83641	06/20/24 16:05	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	83553	06/19/24 10:50	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	83590	06/19/24 21:24	CH	EET MID

Client Sample ID: T-4 (3')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	83496	06/18/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83538	06/19/24 19:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 19:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			83680	06/20/24 16:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83520	06/18/24 21:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83641	06/20/24 16:25	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	83553	06/19/24 10:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83590	06/19/24 21:42	CH	EET MID

Client Sample ID: T-4 (4')
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	83496	06/18/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83538	06/19/24 19:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83693	06/19/24 19:25	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Client Sample ID: T-4 (4')

Date Collected: 06/17/24 00:00

Date Received: 06/18/24 13:50

Lab Sample ID: 880-44909-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			83680	06/20/24 16:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83520	06/18/24 21:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83641	06/20/24 16:45	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	83553	06/19/24 10:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83590	06/19/24 21:48	CH	EET MID

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	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: Mesa Verde SWD (4.16.24)

Job ID: 880-44909-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-44909-1	T-1 (0-1')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-2	T-1 (1.5')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-3	T-1 (2')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-4	T-1 (3')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-5	T-1 (4')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-6	T-1 (5')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-7	T-2 (0-1')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-8	T-2 (1.5')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-9	T-2 (2')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-10	T-2 (3')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-11	T-2 (4')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-12	T-2 (5')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-13	T-3 (0-1')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-14	T-3 (1.5')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-15	T-3 (2')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-16	T-3 (3')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-17	T-3 (4')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-18	T-3 (5')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-19	T-3 (6')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-20	T-4 (0-1')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-21	T-4 (1.5')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-22	T-4 (2')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-23	T-4 (3')	Solid	06/17/24 00:00	06/18/24 13:50
880-44909-24	T-4 (4')	Solid	06/17/24 00:00	06/18/24 13:50

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Chain of Custody

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880-44909 Chain of Custody

6/21/2024

Page 1 of 3

Project Manager:	Connor Moehring	Bill to: (if different)	Joseph Vargo
Company Name:	Carmona Resources	Company Name:	NGL Water Solutions Permian
Address:	310 W Wall St Ste 500	Address:	865 N Albino Street, Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Denver, CO 80220
Phone:	(432) 813-6823	Email:	Joseph.Vargo@nnglep.com

Work Order Comments	
Program: UST/PT	☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund
State of Project:	
Reporting Level II	☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV
Deliverables: EDD	☐ ADAPT ☐ Other:

Project Name:		Mesa Verde SWD (4.16.24)		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	2341	☒ Routine	☐ Rush																None: NO	DI Water: H ₂ O	
Project Location:	Eddy County, New Mexico			Due Date:			Parameters													Cool: Cool	MeOH: Me
Sampler's Name:	IR & JM			Standard														HCL: HC	HNO ₃ : HN		
PO #:																		H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT				Temp Blank:	Yes ☒ No ☐	Wet Ice:		Yes ☒ No ☐													H ₃ PO ₄ : HP
Received Intact:	Yes ☒ No ☐	Thermometer ID:															NaHSO ₄ : NABIS				
Cooler Custody Seals:	Yes ☒ No ☐ N/A ☐	Correction Factor:															Na ₂ S ₂ O ₃ : NaSO ₃				
Sample Custody Seals:	Yes ☒ No ☐ N/A ☐	Temperature Reading:															Zn Acetate+NaOH: Zn				
Total Containers:			Corrected Temperature:															NaOH+Ascorbic Acid: SAPC			
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
T-1 (0-1')		6/17/2024		X		G	1	X	X	X											
T-1 (1.5')		6/17/2024		X		G	1	X	X	X											
T-1 (2)		6/17/2024		X		G	1	X	X	X											
T-1 (3)		6/17/2024		X		G	1	X	X	X											
T-1 (4)		6/17/2024		X		G	1	X	X	X											
T-1 (5)		6/17/2024		X		G	1	X	X	X											
T-2 (0-1')		6/17/2024		X		G	1	X	X	X											
T-2 (1.5')		6/17/2024		X		G	1	X	X	X											
T-2 (2)		6/17/2024		X		G	1	X	X	X											
T-2 (3)		6/17/2024		X		G	1	X	X	X											

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Connor Moehring / Cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>John Ramo</i>	6/18/24 @ 13:50	<i>[Signature]</i>	6/18/24 13:50

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Chain of Custody

Work Order No: 44909

Page 2 of 3

Project Manager:	Connor Moehring	Bill to: (if different)	Joseph Vargo
Company Name:	Carmona Resources	Company Name:	NGL Water Solutions Permian
Address:	310 W Wall St Ste 500	Address:	865 N. Albino Street, Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Denver, CO 80220
Phone:	(432) 813-6823	Email:	Joseph.Vargo@nngl.com

Project Name:	Mesa Verde SWD (4.16.24)	Turn Around	☒ Routine ☐ Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes		
Project Number:	2341	Due Date:														None: NO	DI Water: H ₂ O
Project Location:	Eddy County, New Mexico															Cool: Cool	MeOH: Me
Sampler's Name:	IR & JM															HCL: HC	HNO ₃ : HN
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes	No	Yes	No	Well Ice:	Yes	No								H ₃ PO ₄ : HP	
Received Intact:	Yes	No		Thermometer ID:												NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:												Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes	No	N/A	Temperature Reading:												Zn Acetate+NaOH: Zn	
Total Containers:				Corrected Temperature:												NaOH+Ascorbic Acid: SANC	

Sample Identification	Date	Time	Soil	Water	Grab/	# of											Sample Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Connor Moehring / Cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	6/18/24 01:13:50		6/18/24 1:50

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Chain of Custody

Work Order No: 44909

Page 3 of 3

Project Manager:	Connor Moehring	Bill to: (if different)	Joseph Vargo
Company Name:	Carmona Resources	Company Name:	NGL Water Solutions Permian
Address:	310 W Wall St Ste 500	Address:	865 N. Albino Street, Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Denver, CO 80220
Phone:	(432) 813-6823	Email:	Joseph.Vargo@nngp.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level I ☐ Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	Mesa Verde SWD (4.16.24)	Turn Around	☒ Routine ☐ Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	2341	Due Date:															None: NO	DI Water: H ₂ O		
Project Location:	Eddy County, New Mexico																Cool: Cool	MeOH: Me		
Sampler's Name:	IR & JM																HCL: HC	HNO ₃ : HN		
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT	Temp Blank:	Yes	No	Yes	No	Wet Ice:	Yes	No										H ₃ PO ₄ : HP		
Received Intact:	Yes	No	Thermometer ID:															NaHSO ₄ : NABIS		
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:															Na ₂ S ₂ O ₅ : NaSO ₃	
Sample Custody Seals:	Yes	No	N/A	Temperature Reading:															Zn Acetate+NaOH: Zn	
Total Containers:			Corrected Temperature:															NaOH+Ascorbic Acid: SAPC		
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
T-4 (1.5)	6/17/2024		X		G	1	X	X	X											
T-4 (2)	6/17/2024		X		G	1	X	X	X											
T-4 (3)	6/17/2024		X		G	1	X	X	X											
T-4 (4)	6/17/2024		X		G	1	X	X	X											

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Connor Moehring / Cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	6/18/24 13:50		6/18/24 13:50

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-44909-1
SDG Number: Eddy County, New Mexico

Login Number: 44909
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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

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

QUESTIONS

Action 377693

QUESTIONS

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID:
	372338
	Action Number:
	377693
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2410737986
Incident Name	NAPP2410737986 MESA VERDE SWD @ 30-015-44676
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-44676] MESA VERDE SWD #003

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MESA VERDE SWD
Date Release Discovered	04/16/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Blow Out Pump Produced Water Released: 80 BBL Recovered: 65 BBL Lost: 15 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I

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District III

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

District IV

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 2

Action 377693

QUESTIONS (continued)

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID:	372338
	Action Number:	377693
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	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 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.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Joseph Vargo Title: Regulatory manager Email: joseph.vargo@nglep.com Date: 04/16/2024
--	--

District I

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

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

QUESTIONS, Page 3

Action 377693

QUESTIONS (continued)

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID:	372338
	Action Number:	377693
	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 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (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	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	20300
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	149
GRO+DRO (EPA SW-846 Method 8015M)	149
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	10/01/2024
On what date will (or did) the final sampling or liner inspection occur	10/01/2024
On what date will (or was) the remediation complete(d)	12/30/2024
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	5810
What is the estimated volume (in cubic yards) that will be remediated	510

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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

District II

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District III

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

District IV

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

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

QUESTIONS, Page 4

Action 377693

QUESTIONS (continued)

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID:	372338
	Action Number:	377693
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
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	Yes
What is the name of the NMED facility	Northern Delaware Disposal
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
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: Joseph Vargo Title: Regulatory manager Email: joseph.vargo@nglep.com Date: 08/27/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 377693

QUESTIONS (continued)

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID: 372338
	Action Number: 377693
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 377693

QUESTIONS (continued)

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID: 372338
	Action Number: 377693
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 377693

CONDITIONS

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID: 372338
	Action Number: 377693
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved with conditions. A variance is approved to collect five-point composite samples from the base and the sidewalls of the excavation every 400 square feet. Submit remediation closure report to the OCD by 11/28/2024.	8/30/2024