



## SITE INFORMATION

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**Closure Report  
Flood AFN Federal #1  
Lea County, New Mexico  
NAPP2310842169  
Unit M Sec 30 T19S R32E  
32.625099°, -103.811663°**

### **Crude Oil and Produced Water Release**

**Point of Release: Unknown**

**Release Date: 04/05/2023**

**Volume Released: 5 Barrel of Crude Oil and 0 Barrels of Produced Water**

**Volume Recovered: 5 Barrel of Crude Oil and 0 Barrels of Produced Water**

**CARMONA RESOURCES**



**Prepared for:  
EOG Resources  
5509 Champions Drive  
Midland, TX 79706**

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

## TABLE OF CONTENTS

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### 1.0 SITE INFORMATION AND BACKGROUND

### 2.0 SITE INFORMATION AND BACKGROUND

### 3.0 NMAC REGULATORY CRITERIA

### 4.0 SITE ASSESSMENT ACTIVITIES

### 5.0 REMEDIATION ACTIVITIES

### 6.0 CONCLUSIONS

### FIGURES

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

### APPENDICES

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



May 8, 2023

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

**Re: Closure Report  
Flood AFN Federal #1  
EOG Resources Inc.  
Incident #: NAPP2310842169  
Site Location: Unit M Sec 30 T19S R32E  
(Lat 32.625099°, Long -103.811663°)  
Lea County, New Mexico**

To whom it may concern:

On behalf of EOG Resources Inc. (EOG), Carmona Resources, LLC has prepared this letter to document the Flood AFN Federal #1 site activities. The site is located at 32.625099°, -103.811663° within Unit M Sec 30 T19S R32E, in Lea County, New Mexico (Figures 1 and 2).

### **1.0 Site Information and Background**

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on April 5, 2023. The cause of the release is unknown stained soil was found during reclamation activities. It released approximately five (5) barrels of crude oil and five (5) barrels of produced water. Approximately zero (0) barrels of crude oil were recovered, and zero (0) barrels of produced water were recovered. The impacted area occurred on the pad 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, no known water source is within a 0.50-mile radius of the location. The nearest identified well is approximately 0.88 miles Southwest of the site in S36, T19S, R31E and was drilled in 1982. The well has a reported depth to groundwater of 130' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

### **3.0 NMAC Regulatory Criteria**

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

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

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



#### **4.0 Site Assessment Activities**

On April 5, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. Before Carmona Resources personnel were on location, the areas of S-1 and S-2 were excavated to a depth of 7.5' (bgs). A total of four (4) sample points (S-1 through S-4) and eight (8) horizontal samples (H-1 through H-8) were advanced to depths ranging from the surface to 6" bgs inside and surrounding the release areas to evaluate the vertical and horizontal extent. 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 Xenco 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 sample locations are shown in Figure 3. Refer to Table 1.

See Table 1 for the analytical results.

#### **5.0 Remediation Activities**

Carmona Resources instructed EOG to have the crew excavate the area an additional foot. The staff then returned on-site to collect confirmation samples and document site activities to ensure contamination was removed. Before collecting composite confirmation samples, the NMOCD division office was notified via email on April 20, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of five (5) floor confirmation samples were collected (CS-1 through CS-5), and seven (7) sidewall samples (SW-1 through SW-7) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

All confirmation samples collected were below the reclamation and regulatory criteria. See Table 2.

Once the remediation activities were completed, the excavated areas were backfilled with clean material. Approximately 310 cubic yards of material were excavated and transported offsite for proper disposal.

#### **6.0 Conclusions**

Based on the assessment results and the analytical data, no further actions are required at the site. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,

**Carmona Resources, LLC**

Mike Carmona  
Environmental Manager

Clinton Merritt  
Sr. Project Manager

## FIGURES

CARMONA RESOURCES





OVERVIEW MAP  
EOG RESOURCES  
FLOOD AFN FEDERAL #1  
LEA COUNTY, NEW MEXICO  
32.625099°, -103.811663°



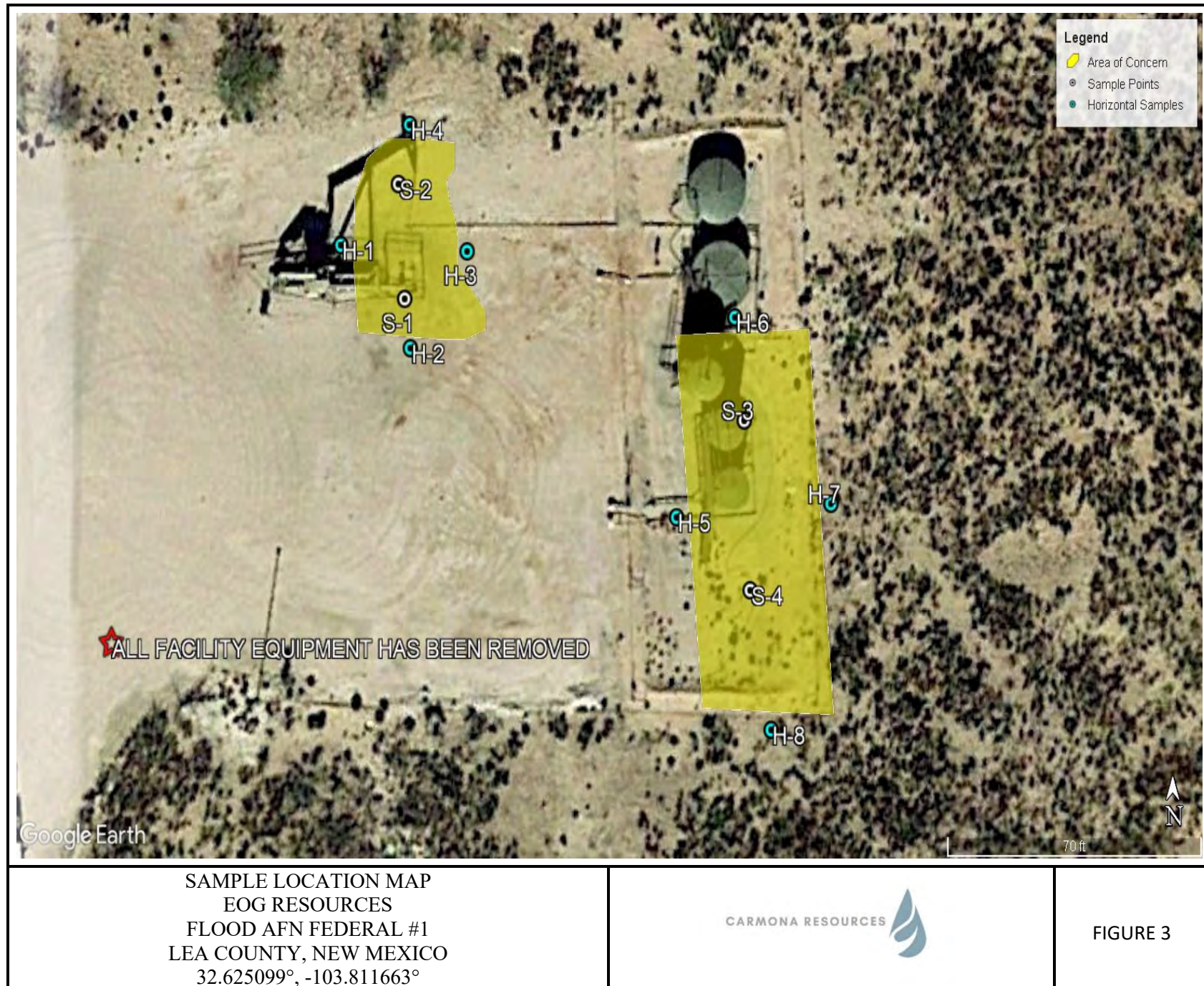
FIGURE 1



TOPOGRAPHIC MAP  
EOG RESOURCES  
FLOOD AFN FEDERAL #1  
LEA COUNTY, NEW MEXICO  
32.625099°, -103.811663°



FIGURE 2





## APPENDIX A

CARMONA RESOURCES



**Table 1**  
**EOG**  
**Flood AFN Federal #1**  
**Lea County, New Mexico**

Sample ID	Date	Depth (In)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
<b>S-1</b>	4/5/2023	0-3"	<50.0	<b>2,450</b>	<b>368</b>	<b>2,820</b>	<0.00200	<0.00200	<0.00200	0.0143	0.0143	<b>2,060</b>
	"	0-6"	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<b>3,160</b>
<b>S-2</b>	4/5/2023	0-6"	61.8	<b>2,250</b>	<b>336</b>	<b>2,650</b>	<0.00201	<0.00201	<0.00201	0.0156	0.0156	<b>2,120</b>
<b>S-3</b>	4/5/2023	0-6"	<49.9	72.4	<49.9	72.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	88.0
<b>S-4</b>	4/5/2023	0-6"	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	137
<b>H-1</b>	4/5/2023	0-6"	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	329
<b>H-2</b>	4/5/2023	0-6"	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	165
<b>H-3</b>	4/5/2023	0-6"	<49.9	<b>141</b>	<49.9	<b>141</b>	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	205
	4/20/2023	0-6"	<49.9	86.0	<49.8	86.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	343
<b>H-4</b>	4/5/2023	0-6"	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	444
<b>H-5</b>	4/5/2023	0-6"	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	70.3
<b>H-6</b>	4/5/2023	0-6"	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	118
<b>H-7</b>	4/5/2023	0-6"	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	61.5
<b>H-8</b>	4/5/2023	0-6"	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	102
<b>Regulatory Criteria<sup>A</sup></b>						<b>100 mg/kg</b>	<b>10 mg/kg</b>	-	-	-	<b>50 mg/kg</b>	<b>600 mg/kg</b>

(-) Not Analyzed

<sup>A</sup> – Table 1 - 19.15.29 NMAC


mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

In - Inches

(S) Sample Point

(H) Horizontal Sample

 Removed

**Table 2**  
**EOG Resources**  
**Flood AFN Federal #1**  
**Lea 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						
<b>CS-1</b>	4/20/2023	8.5	<50.0	74.0	<50.0	74.0	<0.00199	0.00943	<0.00199	<0.00398	0.00943	300
<b>CS-2</b>	4/20/2023	8.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	351
<b>CS-3</b>	4/20/2023	8.5	<50.0	50.8	<50.0	50.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	394
<b>CS-4</b>	4/20/2023	8.5	<49.8	74.4	<49.8	74.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	392
<b>CS-5</b>	4/20/2023	8.5	<49.9	72.7	<49.9	72.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	365
<b>SW-1</b>	4/20/2023	8.5	<50.0	81.5	<50.0	81.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	318
<b>SW-2</b>	4/20/2023	8.5	<49.9	69.3	<49.9	69.3	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	345
<b>SW-3</b>	4/20/2023	8.5	<49.8	67.7	<49.8	67.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	334
<b>SW-4</b>	4/20/2023	8.5	<49.9	64.0	<49.9	64.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	363
<b>SW-5</b>	4/20/2023	8.5	<49.9	57.7	<49.9	57.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	360
<b>SW-6</b>	4/20/2023	8.5	<50.0	58.8	<50.0	58.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	368
<b>SW-7</b>	4/20/2023	8.5	<50.0	85.3	<50.0	85.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	328
<b>Regulatory Criteria<sup>A</sup></b>						<b>100 mg/kg</b>	<b>10 mg/kg</b>				<b>50 mg/kg</b>	<b>600 mg/kg</b>

(-) Not Analyzed

<sup>A</sup> – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons  
ft-feet

(CS) Confirmation Sample

(SW) Sidewall Sample

## APPENDIX B

CARMONA RESOURCES



# PHOTOGRAPHIC LOG

## EOG Resources

### Photograph No. 1

**Facility:** Flood AFN Federal #1

**County:** Lea County, New Mexico

**Description:**

View North, area of S-1 and S-2.



### Photograph No. 2

**Facility:** Flood AFN Federal #1

**County:** Lea County, New Mexico

**Description:**

View Southwest, area of S-3 and S-4.



### Photograph No. 3

**Facility:** Flood AFN Federal #1

**County:** Lea County, New Mexico

**Description:**

View North, area of Confirmation Samples (1-5).



## APPENDIX C

CARMONA RESOURCES



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

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

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

Incident ID	nAPP2310842169
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources	OGRID 7377
Contact Name Todd Wells	Contact Telephone (432) 686-3613
Contact email Todd_Wells@eogresources.com	Incident # (assigned by OCD) nAPP2310842169
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.625099° Longitude -103.811663°  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Flood AFN Fed #1	Site Type
Date Release Discovered 4/5/23	API# (if applicable) 30-025-30944

Unit Letter	Section	Township	Range	County
M	30	19S	32E	Lea

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 5	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 5	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: During the P&A and reclamation activities at the site, stained soils were noticed in the area around the wellhead on 4/5/23. The impacted soils resulted from an unknown release at an unknown time. Based on the volume of impacted soils, the release was estimated to be 5 bbls of crude oil and 5 bbls of produced water with none recovered.

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Unknown volume of release at an unknown time.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? No, it was an unknown volume of release at an unknown time.	

## Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Todd Wells</u>	Title: <u>Environmental Specialist</u>
Signature: <u>Todd Wells</u>	Date: <u>4/18/23</u>
email: <u>Todd_Wells@eogresources.com</u>	Telephone: <u>(432) 686-3613</u>
<b><u>OCD Only</u></b>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>04/18/2023</u>

Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: Todd Wells Date: 5/10/23

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Jocelyn Harimon Date: 05/10/2023

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: Todd Wells Date: 5/10/23

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Jocelyn Harimon Date: 05/10/2023

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

Closure Approved by: Nelson Velez Date: 07/28/2023

Printed Name: Nelson Velez Title: Environmental Specialist - Adv

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**From:** Enviro, OCD, EMNRD  
**Sent:** Wednesday, April 19, 2023 2:24 PM  
**To:** Mike Carmona  
**Cc:** Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD  
**Subject:** RE: [EXTERNAL] EOG Flood AFN Fed. #1 Sampling Notification- Incident No. nAPP2310842169

Mike,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

**Jocelyn Harimon** • Environmental Specialist  
Environmental Bureau  
EMNRD - Oil Conservation Division  
1220 South St. Francis Drive | Santa Fe, NM 87505  
(505)469-2821 | [Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)  
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



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**From:** Mike Carmona <[Mcarmona@carmonaresources.com](mailto:Mcarmona@carmonaresources.com)>  
**Sent:** Tuesday, April 18, 2023 12:25 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Todd Wells <[Todd\\_Wells@eogresources.com](mailto:Todd_Wells@eogresources.com)>; Conner Moehring <[Cmoehring@carmonaresources.com](mailto:Cmoehring@carmonaresources.com)>  
**Subject:** [EXTERNAL] EOG Flood AFN Fed. #1 Sampling Notification- Incident No. nAPP2310842169

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

Good morning,

This email serves as a notification for confirmation sampling on the EOG – Flood AFN Fed #1. Sampling is scheduled to begin on Thursday afternoon, April 20<sup>th</sup>. Carmona Resources personnel will be on-site to collect the confirmation samples.

Incident No.nAPP2310842169

Mike J. Carmona  
310 West Wall Street, Suite 500  
Midland TX, 79701  
M: 432-813-1992  
[Mcarmona@carmonaresources.com](mailto:Mcarmona@carmonaresources.com)



## APPENDIX D

CARMONA RESOURCES

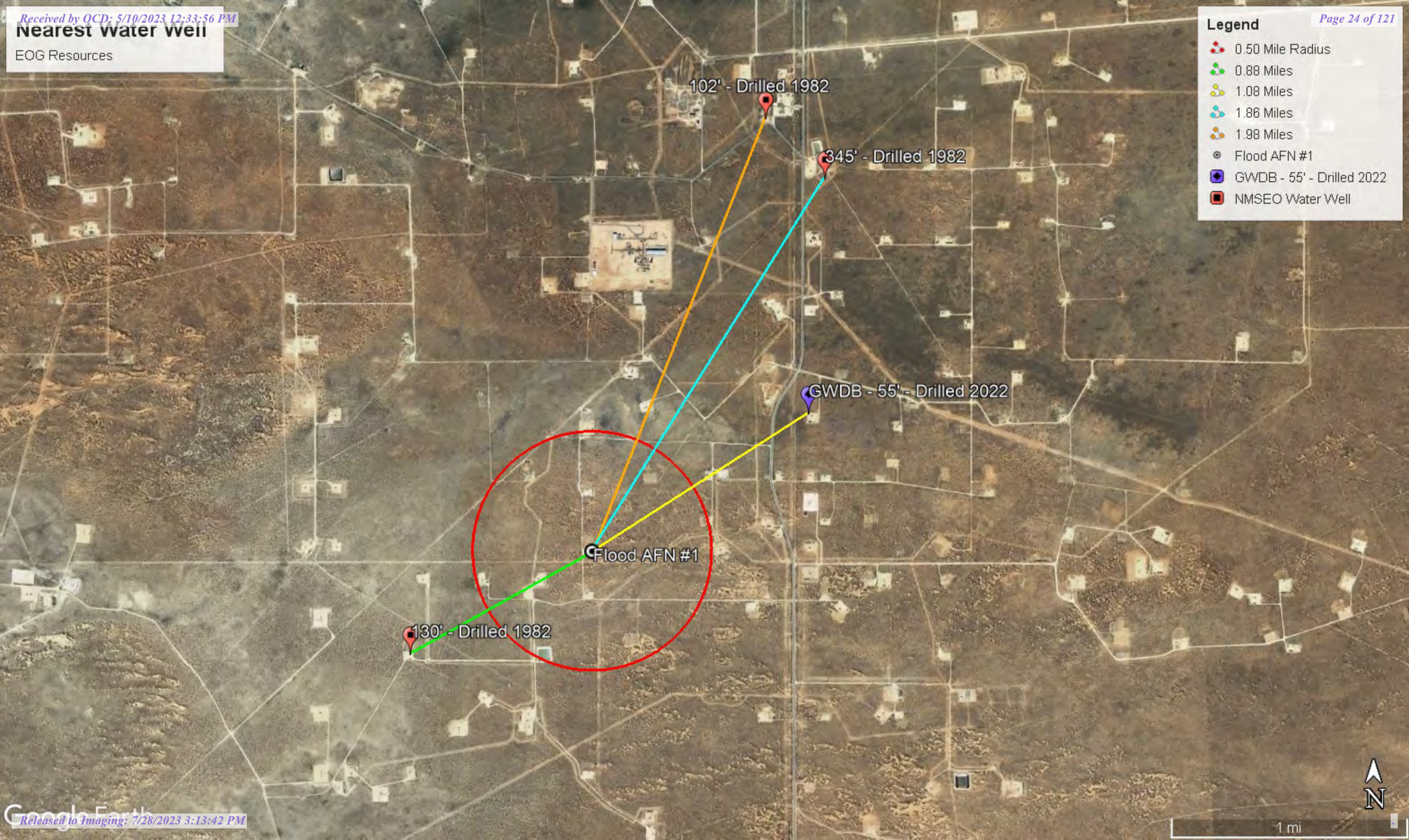


Nearest water well

EOG Resources

Legend



- 0.50 Mile Radius
- 0.88 Miles
- 1.08 Miles
- 1.86 Miles
- 1.98 Miles
- Flood AFN #1
- GWDB - 55' - Drilled 2022
- NMSEO Water Well



Low Karst


EOG Resources

**Legend**

-  Flood AFN #1
-  Low

Flood AFN #1

1 mi





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">CP 00642 POD1</a>	CP	ED		2	2	25	19S	31E		611025	3611657*	1383	250		
<a href="#">CP 00641 POD1</a>	CP	ED		4	1	36	19S	31E		610247	3609634*	1425	300	130	170
<a href="#">CP 00639 POD1</a>	CP	LE		3	1	20	19S	32E		613029	3612880*	2966	350	345	5
<a href="#">CP 00563 POD1</a>	CP	LE		1	1	2	19	19S	32E	612118	3613376*	3092	300		
<a href="#">CP 00640 POD1</a>	CP	LE		2	2	19	19S	32E		612621	3613280*	3144	260	102	158
<a href="#">CP 01656 POD3</a>	CP	LE		3	4	3	17	19S	32E	613374	3613633	3790	30		
<a href="#">CP 01656 POD2</a>	CP	LE		3	4	3	17	19S	32E	613364	3613648	3798	70		
<a href="#">CP 01656 POD1</a>	CP	LE		3	4	3	17	19S	32E	613368	3613646	3799	70		

Average Depth to Water: **192 feet**

Minimum Depth: **102 feet**

Maximum Depth: **345 feet**

Record Count: 8

**UTM NAD83 Radius Search (in meters):**

**Easting (X):** 611480

**Northing (Y):** 3610350

**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.

4/10/23 7:36 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

Released to Imaging: 7/28/2023 3:13:42 PM



# 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				
	CP 00641 POD1	4	1	36	19S	31E	610247	3609634*					
x													
Driller License:	882	Driller Company:				LARRY'S DRILLING & PUMP CO.							
Driller Name:	FELKINS, LARRY												
Drill Start Date:	02/11/1982	Drill Finish Date:				02/12/1982		Plug Date:					
Log File Date:	02/23/1982	PCW Rcv Date:						Source:				Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield:					
Casing Size:		Depth Well:				300 feet		Depth Water:				130 feet	
x													

\*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.

CARMONA RESOURCES



<b>Project Name :</b>	<b>Southern California 29 Federal 16H</b>	<b>Date :</b>	<b>Wednesday, August 31, 2022</b>
<b>Project No. :</b>	<b>1122</b>	<b>Sampler :</b>	<b>A. Thielke</b>
<b>Location :</b>	<b>Lea County, New Mexico</b>	<b>Driller :</b>	<b>Scarborough Drilling</b>
<b>Coordinates :</b>	<b>32.63343, -103.79605</b>	<b>Method :</b>	<b>Air Rotary</b>
<b>Elevation :</b>			


Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		Light Brown/Red Silty Sand. Poorly Cemented.		50		Red Bed Clay w/Sand 70% Clay 30% Sand. Dark Red Dry. Poorly Sorted Poorly Cemented	
3							
5		Well Cemented White/Grey Medium grained Caliche/Gravel w/Silty Sand. Well Sorted.		55			
10		Well Cemented light brown Medium grained Caliche/Gravel w/Silty Sand. Well Sorted.		60		TD: 55'	
15		Red/Brown Silty Sand w/ 20% Caliche/Gravel Fragments. Poorly Cemented. Poorly Sorted.		65			
20				70			
25				75			
30		Light Brown/Pink Silt Sand Poorly Cemented. Poorly Sorted. Very Fine Grained.		80			
35				85			
40				90			
45				95			
50				105			

Comments : Boring terminated at 55' at 10:00 Central Time with no presence of groundwater or moisture, checked for moisture on 9/7/2022. No moisture present.



# 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		
	CP 00639 POD1		3	1	20	19S	32E	613029	3612880*		

Driller License:	882	Driller Company:	LARRY'S DRILLING & PUMP CO.			
Driller Name:	FELKINS, LARRY					
Drill Start Date:	02/09/1982	Drill Finish Date:	02/10/1982	Plug Date:		
Log File Date:	03/23/1982	PCW Rev Date:		Source:	Shallow	
Pump Type:		Pipe Discharge Size:		Estimated Yield:		
Casing Size:		Depth Well:	350 feet	Depth Water:	345 feet	


\*UTM location was derived from PLSS - see Help

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



# New Mexico Office of the State Engineer

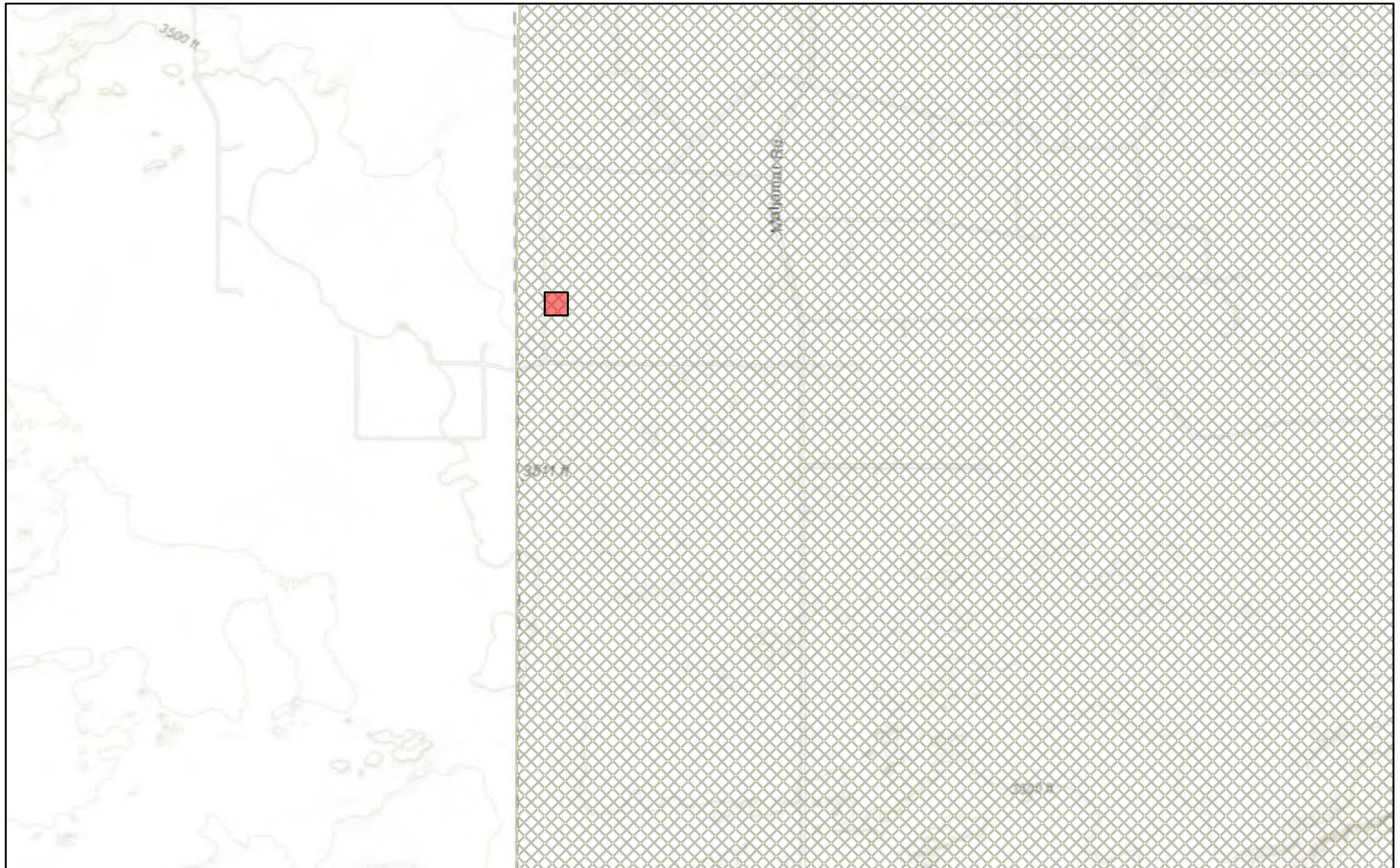
## Point of Diversion Summary

		(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		
	CP 00640 POD1		2	2	19	19S	32E	612621	3613280*		
x											
Driller License:	882	Driller Company:				LARRY'S DRILLING & PUMP CO.					
Driller Name:	FELKINS, LARRY										
Drill Start Date:	02/08/1982	Drill Finish Date:				02/09/1982		Plug Date:			
Log File Date:	03/04/1982	PCW Rcv Date:						Source:		Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield:			
Casing Size:		Depth Well:				260 feet		Depth Water:		102 feet	
x											

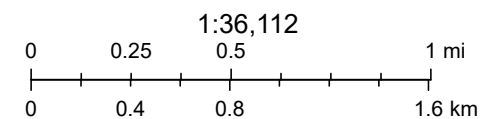
\*UTM location was derived from PLSS - see Help

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.

# New Mexico NFHL Data



April 10, 2023



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

[nmflood.org](http://nmflood.org) is made possible through a collaboration with NMDHSEM,

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

## APPENDIX E

CARMONA RESOURCES





Environment Testing

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

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 4/13/2023 12:48:50 PM

## JOB DESCRIPTION

Flood AFN #1  
SDG NUMBER Lea County, NM

## JOB NUMBER

880-27075-1

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  
4/13/2023 12:48:50 PM

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

Client: Carmona Resources  
Project/Site: Flood AFN #1

Laboratory Job ID: 880-27075-1  
SDG: Lea County, NM

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Client Sample Results . . . . .	6
Surrogate Summary . . . . .	10
QC Sample Results . . . . .	11
QC Association Summary . . . . .	17
Lab Chronicle . . . . .	20
Certification Summary . . . . .	22
Method Summary . . . . .	23
Sample Summary . . . . .	24
Chain of Custody . . . . .	25
Receipt Checklists . . . . .	26

1

2

3

4

5

6

7

8

9

10

11

12

13

14

## Definitions/Glossary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

**Job ID: 880-27075-1****Laboratory: Eurofins Midland****Narrative****Job Narrative  
880-27075-1****Receipt**

The samples were received on 4/12/2023 9:51 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 3.1°C

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-0.5') (880-27075-1), S-1 (0-3") (880-27075-2), S-2 (0-0.5') (880-27075-3), S-3 (0-0.5') (880-27075-4) and S-4 (0-0.5') (880-27075-5).

**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 surrogate recovery for the blank associated with preparation batch 880-50830 and analytical batch 880-50959 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (880-26926-A-86-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-50958 and analytical batch 880-50962 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-50958/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (880-27063-A-6-B MS) and (880-27063-A-6-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: S-3 (0-0.5') (880-27075-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

**HPLC/IC**

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

## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-27075-1

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

## 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		04/12/23 11:52	04/12/23 13:36	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 13:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 13:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/12/23 11:52	04/12/23 13:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 13:36	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/12/23 11:52	04/12/23 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	04/12/23 11:52	04/12/23 13:36	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/12/23 11:52	04/12/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/12/23 15:53	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			04/13/23 11:28	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		04/12/23 10:00	04/12/23 21:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/12/23 10:00	04/12/23 21:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/12/23 10:00	04/12/23 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	04/12/23 10:00	04/12/23 21:09	1
o-Terphenyl	85		70 - 130	04/12/23 10:00	04/12/23 21:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3160		25.1		mg/Kg			04/12/23 16:19	5

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

Lab Sample ID: 880-27075-2

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

## 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		04/12/23 11:52	04/12/23 13:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/12/23 11:52	04/12/23 13:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/12/23 11:52	04/12/23 13:56	1
m-Xylene & p-Xylene	0.00894		0.00401		mg/Kg		04/12/23 11:52	04/12/23 13:56	1
o-Xylene	0.00531		0.00200		mg/Kg		04/12/23 11:52	04/12/23 13:56	1
Xylenes, Total	0.0143		0.00401		mg/Kg		04/12/23 11:52	04/12/23 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	04/12/23 11:52	04/12/23 13:56	1
1,4-Difluorobenzene (Surr)	90		70 - 130	04/12/23 11:52	04/12/23 13:56	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-27075-2

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0143		0.00401		mg/Kg			04/12/23 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2820		50.0		mg/Kg			04/13/23 11:30	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		04/12/23 10:00	04/12/23 17:40	1
Diesel Range Organics (Over C10-C28)	2450		50.0		mg/Kg		04/12/23 10:00	04/12/23 17:40	1
Oil Range Organics (Over C28-C36)	368		50.0		mg/Kg		04/12/23 10:00	04/12/23 17:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				04/12/23 10:00	04/12/23 17:40	1
o-Terphenyl	108		70 - 130				04/12/23 10:00	04/12/23 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2060		24.9		mg/Kg			04/12/23 16:34	5

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

Lab Sample ID: 880-27075-3

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

## 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		04/12/23 11:52	04/12/23 14:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/12/23 11:52	04/12/23 14:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/12/23 11:52	04/12/23 14:17	1
m-Xylene & p-Xylene	0.00949		0.00402		mg/Kg		04/12/23 11:52	04/12/23 14:17	1
o-Xylene	0.00606		0.00201		mg/Kg		04/12/23 11:52	04/12/23 14:17	1
Xylenes, Total	0.0156		0.00402		mg/Kg		04/12/23 11:52	04/12/23 14:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				04/12/23 11:52	04/12/23 14:17	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/12/23 11:52	04/12/23 14:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0156		0.00402		mg/Kg			04/12/23 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2650		49.8		mg/Kg			04/13/23 11:30	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	61.8		49.8		mg/Kg		04/12/23 10:00	04/12/23 18:03	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-27075-3

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

## 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)	2250		49.8		mg/Kg		04/12/23 10:00	04/12/23 18:03	1
Oil Range Organics (Over C28-C36)	336		49.8		mg/Kg		04/12/23 10:00	04/12/23 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				04/12/23 10:00	04/12/23 18:03	1
o-Terphenyl	99		70 - 130				04/12/23 10:00	04/12/23 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2120		24.9		mg/Kg			04/12/23 16:39	5

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

Lab Sample ID: 880-27075-4

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

## 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		04/12/23 11:52	04/12/23 16:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 16:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 16:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/12/23 11:52	04/12/23 16:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 16:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/12/23 11:52	04/12/23 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				04/12/23 11:52	04/12/23 16:33	1
1,4-Difluorobenzene (Surr)	94		70 - 130				04/12/23 11:52	04/12/23 16:33	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			04/13/23 09:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	72.4		49.9		mg/Kg			04/13/23 11:30	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		04/12/23 10:00	04/12/23 18:25	1
Diesel Range Organics (Over C10-C28)	72.4		49.9		mg/Kg		04/12/23 10:00	04/12/23 18:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/12/23 10:00	04/12/23 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				04/12/23 10:00	04/12/23 18:25	1
o-Terphenyl	147	S1+	70 - 130				04/12/23 10:00	04/12/23 18:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.0		4.98		mg/Kg			04/12/23 16:43	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-27075-5

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

## 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		04/12/23 11:52	04/12/23 16:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 16:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 16:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/12/23 11:52	04/12/23 16:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 16:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/12/23 11:52	04/12/23 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/12/23 11:52	04/12/23 16:54	1
1,4-Difluorobenzene (Surr)	84		70 - 130	04/12/23 11:52	04/12/23 16:54	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			04/13/23 09:53	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			04/13/23 11:30	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		04/12/23 10:00	04/12/23 18:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/12/23 10:00	04/12/23 18:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/12/23 10:00	04/12/23 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	04/12/23 10:00	04/12/23 18:48	1
o-Terphenyl	124		70 - 130	04/12/23 10:00	04/12/23 18:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	137		5.02		mg/Kg			04/12/23 16:48	1

## Surrogate Summary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, 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)
880-26797-A-1-E MS	Matrix Spike	111	105
880-26797-A-1-F MSD	Matrix Spike Duplicate	109	104
880-27075-1	S-1 (0-0.5')	86	96
880-27075-2	S-1 (0-3")	141 S1+	90
880-27075-3	S-2 (0-0.5')	115	101
880-27075-4	S-3 (0-0.5')	85	94
880-27075-5	S-4 (0-0.5')	102	84
LCS 880-50827/1-A	Lab Control Sample	107	106
LCSD 880-50827/2-A	Lab Control Sample Dup	106	109
MB 880-50827/5-A	Method Blank	79	96
<b>Surrogate Legend</b>			
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)
880-26926-A-86-C MS	Matrix Spike	100	77
880-26926-A-86-D MSD	Matrix Spike Duplicate	93	71
880-27063-A-6-B MS	Matrix Spike	130	135 S1+
880-27063-A-6-C MSD	Matrix Spike Duplicate	128	132 S1+
880-27075-1	S-1 (0-0.5')	100	85
880-27075-2	S-1 (0-3")	110	108
880-27075-3	S-2 (0-0.5')	106	99
880-27075-4	S-3 (0-0.5')	124	147 S1+
880-27075-5	S-4 (0-0.5')	102	124
LCS 880-50830/2-A	Lab Control Sample	112	97
LCS 880-50958/2-A	Lab Control Sample	116	134 S1+
LCSD 880-50830/3-A	Lab Control Sample Dup	93	81
LCSD 880-50958/3-A	Lab Control Sample Dup	103	121
MB 880-50830/1-A	Method Blank	135 S1+	123
MB 880-50958/1-A	Method Blank	116	148 S1+
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

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

Lab Sample ID: MB 880-50827/5-A

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50827

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/10/23 11:52	04/12/23 10:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	04/10/23 11:52	04/12/23 10:50	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/10/23 11:52	04/12/23 10:50	1

Lab Sample ID: LCS 880-50827/1-A

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50827

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1032		mg/Kg		103	70 - 130
Toluene	0.100	0.09878		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.09778		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2100		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1150		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-50827/2-A

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50827

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1107		mg/Kg		111	70 - 130	7	35
Toluene	0.100	0.1032		mg/Kg		103	70 - 130	4	35
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2164		mg/Kg		108	70 - 130	3	35
o-Xylene	0.100	0.1137		mg/Kg		114	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-26797-A-1-E MS

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50827

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0996	0.1070		mg/Kg		107	70 - 130
Toluene	<0.00198	U	0.0996	0.1020		mg/Kg		102	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-26797-A-1-E MS

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50827

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0996	0.1029		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.199	0.2210		mg/Kg		111	70 - 130
o-Xylene	<0.00198	U	0.0996	0.1134		mg/Kg		114	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-26797-A-1-F MSD

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50827

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0994	0.1012		mg/Kg		102	70 - 130	6	35
Toluene	<0.00198	U	0.0994	0.09706		mg/Kg		98	70 - 130	5	35
Ethylbenzene	<0.00198	U	0.0994	0.09702		mg/Kg		98	70 - 130	6	35
m-Xylene & p-Xylene	<0.00396	U	0.199	0.2091		mg/Kg		105	70 - 130	6	35
o-Xylene	<0.00198	U	0.0994	0.1073		mg/Kg		108	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-50830/1-A

Matrix: Solid

Analysis Batch: 50959

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50830

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		04/11/23 12:59	04/12/23 09:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/11/23 12:59	04/12/23 09:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/11/23 12:59	04/12/23 09:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	04/11/23 12:59	04/12/23 09:02	1
o-Terphenyl	123		70 - 130	04/11/23 12:59	04/12/23 09:02	1

Lab Sample ID: LCS 880-50830/2-A

Matrix: Solid

Analysis Batch: 50959

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50830

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	965.8		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1056		mg/Kg		106	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-50830/2-A

Matrix: Solid

Analysis Batch: 50959

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50830

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: LCSD 880-50830/3-A

Matrix: Solid

Analysis Batch: 50959

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50830

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	1000	866.1		mg/Kg		87	70 - 130	20	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: 880-26926-A-86-C MS

Matrix: Solid

Analysis Batch: 50959

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50830

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	922.3		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	962.6		mg/Kg		97	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	77		70 - 130

Lab Sample ID: 880-26926-A-86-D MSD

Matrix: Solid

Analysis Batch: 50959

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50830

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	996	878.3		mg/Kg		88	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	875.3		mg/Kg		88	70 - 130	10	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	71		70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

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

Lab Sample ID: MB 880-50958/1-A

Matrix: Solid

Analysis Batch: 50962

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50958

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		04/12/23 08:16	04/12/23 09:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/12/23 08:16	04/12/23 09:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/12/23 08:16	04/12/23 09:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				04/12/23 08:16	04/12/23 09:02	1
o-Terphenyl	148	S1+	70 - 130				04/12/23 08:16	04/12/23 09:02	1

Lab Sample ID: LCS 880-50958/2-A

Matrix: Solid

Analysis Batch: 50962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1120		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1006		mg/Kg		101	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	116		70 - 130				
o-Terphenyl	134	S1+	70 - 130				

Lab Sample ID: LCSD 880-50958/3-A

Matrix: Solid

Analysis Batch: 50962

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50958

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1065		mg/Kg		106	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	934.1		mg/Kg		93	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	103		70 - 130						
o-Terphenyl	121		70 - 130						

Lab Sample ID: 880-27063-A-6-B MS

Matrix: Solid

Analysis Batch: 50962

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50958

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1173		mg/Kg		118	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1302		mg/Kg		130	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-27063-A-6-B MS

Matrix: Solid

Analysis Batch: 50962

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50958

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	130		70 - 130
o-Terphenyl	135	S1+	70 - 130

Lab Sample ID: 880-27063-A-6-C MSD

Matrix: Solid

Analysis Batch: 50962

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50958

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1171		mg/Kg		117	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1278		mg/Kg		128	70 - 130	2	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	128		70 - 130								
o-Terphenyl	132	S1+	70 - 130								

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50981/1-A

Matrix: Solid

Analysis Batch: 51039

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00		mg/Kg			04/12/23 16:05	1	

Lab Sample ID: LCS 880-50981/2-A

Matrix: Solid

Analysis Batch: 51039

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	233.7		mg/Kg		93	90 - 110			

Lab Sample ID: LCSD 880-50981/3-A

Matrix: Solid

Analysis Batch: 51039

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	236.5		mg/Kg		95	90 - 110	1	20	

Lab Sample ID: 880-27075-1 MS

Matrix: Solid

Analysis Batch: 51039

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

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	3160		1250	4315		mg/Kg		92	90 - 110		

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QC Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-27075-1 MSD				Client Sample ID: S-1 (0-0.5')								
Matrix: Solid				Prep Type: Soluble								
Analysis Batch: 51039												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	3160		1250	4356		mg/Kg		95	90 - 110	1	20	

## QC Association Summary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

## GC VOA

## Prep Batch: 50827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-1	S-1 (0-0.5')	Total/NA	Solid	5035	
880-27075-2	S-1 (0-3")	Total/NA	Solid	5035	
880-27075-3	S-2 (0-0.5')	Total/NA	Solid	5035	
880-27075-4	S-3 (0-0.5')	Total/NA	Solid	5035	
880-27075-5	S-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-50827/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50827/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50827/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26797-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-26797-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 50945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-1	S-1 (0-0.5')	Total/NA	Solid	8021B	50827
880-27075-2	S-1 (0-3")	Total/NA	Solid	8021B	50827
880-27075-3	S-2 (0-0.5')	Total/NA	Solid	8021B	50827
880-27075-4	S-3 (0-0.5')	Total/NA	Solid	8021B	50827
880-27075-5	S-4 (0-0.5')	Total/NA	Solid	8021B	50827
MB 880-50827/5-A	Method Blank	Total/NA	Solid	8021B	50827
LCS 880-50827/1-A	Lab Control Sample	Total/NA	Solid	8021B	50827
LCSD 880-50827/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50827
880-26797-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	50827
880-26797-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50827

## Analysis Batch: 51003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-1	S-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27075-2	S-1 (0-3")	Total/NA	Solid	Total BTEX	
880-27075-3	S-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27075-4	S-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27075-5	S-4 (0-0.5')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 50830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-1	S-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-50830/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50830/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50830/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26926-A-86-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26926-A-86-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Prep Batch: 50958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-2	S-1 (0-3")	Total/NA	Solid	8015NM Prep	
880-27075-3	S-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-27075-4	S-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-27075-5	S-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-50958/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50958/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

## GC Semi VOA (Continued)

## Prep Batch: 50958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-50958/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-27063-A-6-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-27063-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 50959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-1	S-1 (0-0.5')	Total/NA	Solid	8015B NM	50830
MB 880-50830/1-A	Method Blank	Total/NA	Solid	8015B NM	50830
LCS 880-50830/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50830
LCSD 880-50830/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50830
880-26926-A-86-C MS	Matrix Spike	Total/NA	Solid	8015B NM	50830
880-26926-A-86-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50830

## Analysis Batch: 50962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-2	S-1 (0-3")	Total/NA	Solid	8015B NM	50958
880-27075-3	S-2 (0-0.5')	Total/NA	Solid	8015B NM	50958
880-27075-4	S-3 (0-0.5')	Total/NA	Solid	8015B NM	50958
880-27075-5	S-4 (0-0.5')	Total/NA	Solid	8015B NM	50958
MB 880-50958/1-A	Method Blank	Total/NA	Solid	8015B NM	50958
LCS 880-50958/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50958
LCSD 880-50958/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50958
880-27063-A-6-B MS	Matrix Spike	Total/NA	Solid	8015B NM	50958
880-27063-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50958

## Analysis Batch: 51056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-1	S-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-27075-2	S-1 (0-3")	Total/NA	Solid	8015 NM	
880-27075-3	S-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-27075-4	S-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-27075-5	S-4 (0-0.5')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 50981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-1	S-1 (0-0.5')	Soluble	Solid	DI Leach	
880-27075-2	S-1 (0-3")	Soluble	Solid	DI Leach	
880-27075-3	S-2 (0-0.5')	Soluble	Solid	DI Leach	
880-27075-4	S-3 (0-0.5')	Soluble	Solid	DI Leach	
880-27075-5	S-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-50981/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50981/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50981/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-27075-1 MS	S-1 (0-0.5')	Soluble	Solid	DI Leach	
880-27075-1 MSD	S-1 (0-0.5')	Soluble	Solid	DI Leach	

## Analysis Batch: 51039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-1	S-1 (0-0.5')	Soluble	Solid	300.0	50981

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QC Association Summary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 51039 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-2	S-1 (0-3")	Soluble	Solid	300.0	50981
880-27075-3	S-2 (0-0.5')	Soluble	Solid	300.0	50981
880-27075-4	S-3 (0-0.5')	Soluble	Solid	300.0	50981
880-27075-5	S-4 (0-0.5')	Soluble	Solid	300.0	50981
MB 880-50981/1-A	Method Blank	Soluble	Solid	300.0	50981
LCS 880-50981/2-A	Lab Control Sample	Soluble	Solid	300.0	50981
LCSD 880-50981/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50981
880-27075-1 MS	S-1 (0-0.5')	Soluble	Solid	300.0	50981
880-27075-1 MSD	S-1 (0-0.5')	Soluble	Solid	300.0	50981

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-27075-1

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 13:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51003	04/12/23 15:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51056	04/13/23 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50830	04/12/23 10:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50959	04/12/23 21:09	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51039	04/12/23 16:19	SMC	EET MID

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

Lab Sample ID: 880-27075-2

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 13:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51003	04/12/23 15:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51056	04/13/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50958	04/12/23 10:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50962	04/12/23 17:40	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51039	04/12/23 16:34	SMC	EET MID

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

Lab Sample ID: 880-27075-3

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 14:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51003	04/12/23 15:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51056	04/13/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	50958	04/12/23 10:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50962	04/12/23 18:03	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51039	04/12/23 16:39	SMC	EET MID

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

Lab Sample ID: 880-27075-4

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 16:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51003	04/13/23 09:53	AJ	EET MID

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-27075-4

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

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			51056	04/13/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50958	04/12/23 10:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50962	04/12/23 18:25	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51039	04/12/23 16:43	SMC	EET MID

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

Lab Sample ID: 880-27075-5

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 16:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51003	04/13/23 09:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51056	04/13/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50958	04/12/23 10:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50962	04/12/23 18:48	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51039	04/12/23 16:48	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: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

## Method Summary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, 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: Flood AFN #1

Job ID: 880-27075-1  
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-27075-1	S-1 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27075-2	S-1 (0-3")	Solid	04/05/23 00:00	04/12/23 09:51
880-27075-3	S-2 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27075-4	S-3 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27075-5	S-4 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51

- 1
- 2
- 3
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- 7
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- 9
- 10
- 11
- 12
- 13
- 14

Work Order No: 27075

Page 1 of 1

[illegible]

## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-27075-1  
SDG Number: Lea County, NM

Login Number: 27075

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

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14

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 4/13/2023 12:49:02 PM

## JOB DESCRIPTION

Flood AFN #1  
SDG NUMBER Lea County, NM

## JOB NUMBER

880-27076-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701

# Eurofins Midland

## Job Notes

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

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

## Authorization



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4/13/2023 12:49:02 PM

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

Client: Carmona Resources  
Project/Site: Flood AFN #1

Laboratory Job ID: 880-27076-1  
SDG: Lea County, NM

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Client Sample Results . . . . .	6
Surrogate Summary . . . . .	12
QC Sample Results . . . . .	13
QC Association Summary . . . . .	17
Lab Chronicle . . . . .	20
Certification Summary . . . . .	23
Method Summary . . . . .	24
Sample Summary . . . . .	25
Chain of Custody . . . . .	26
Receipt Checklists . . . . .	27

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

## Definitions/Glossary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

**Job ID: 880-27076-1**

**Laboratory: Eurofins Midland**

**Narrative**

**Job Narrative  
880-27076-1**

**Receipt**

The samples were received on 4/12/2023 9:51 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 3.1°C

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-27076-1), H-2 (0-0.5') (880-27076-2), H-3 (0-0.5') (880-27076-3), H-4 (0-0.5') (880-27076-4), H-5 (0-0.5') (880-27076-5), H-6 (0-0.5') (880-27076-6), H-7 (0-0.5') (880-27076-7) and H-8 (0-0.5') (880-27076-8).

**GC VOA**

Method 8021B: Surrogate recovery for the following sample was outside control limits: H-5 (0-0.5') (880-27076-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

**GC Semi VOA**

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-50830 and analytical batch 880-50959 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (880-26926-A-86-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

**HPLC/IC**

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

## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-27076-1

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

## 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		04/12/23 11:52	04/12/23 17:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 17:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 17:14	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/12/23 11:52	04/12/23 17:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 17:14	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/12/23 11:52	04/12/23 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	04/12/23 11:52	04/12/23 17:14	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/12/23 11:52	04/12/23 17:14	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			04/13/23 09:53	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			04/13/23 11:28	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		04/12/23 10:00	04/12/23 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/12/23 10:00	04/12/23 18:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/12/23 10:00	04/12/23 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	04/12/23 10:00	04/12/23 18:03	1
o-Terphenyl	94		70 - 130	04/12/23 10:00	04/12/23 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	329		5.03		mg/Kg			04/12/23 17:03	1

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

Lab Sample ID: 880-27076-2

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

## 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		04/12/23 11:52	04/12/23 17:35	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 17:35	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 17:35	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/12/23 11:52	04/12/23 17:35	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 17:35	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/12/23 11:52	04/12/23 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	04/12/23 11:52	04/12/23 17:35	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/12/23 11:52	04/12/23 17:35	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-27076-2

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/13/23 09:53	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			04/13/23 11:28	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		04/12/23 10:00	04/12/23 18:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/12/23 10:00	04/12/23 18:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/12/23 10:00	04/12/23 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				04/12/23 10:00	04/12/23 18:25	1
o-Terphenyl	105		70 - 130				04/12/23 10:00	04/12/23 18:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	165		5.04		mg/Kg			04/12/23 17:08	1

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

Lab Sample ID: 880-27076-3

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

## 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		04/12/23 11:52	04/12/23 17:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/12/23 11:52	04/12/23 17:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/12/23 11:52	04/12/23 17:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/12/23 11:52	04/12/23 17:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/12/23 11:52	04/12/23 17:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/12/23 11:52	04/12/23 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				04/12/23 11:52	04/12/23 17:55	1
1,4-Difluorobenzene (Surr)	72		70 - 130				04/12/23 11:52	04/12/23 17:55	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			04/13/23 09:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	141		49.9		mg/Kg			04/13/23 11:28	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		04/12/23 10:00	04/12/23 18:48	1
Diesel Range Organics (Over C10-C28)	141		49.9		mg/Kg		04/12/23 10:00	04/12/23 18:48	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-27076-3

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/12/23 10:00	04/12/23 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				04/12/23 10:00	04/12/23 18:48	1
o-Terphenyl	94		70 - 130				04/12/23 10:00	04/12/23 18:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	205		4.99		mg/Kg			04/12/23 17:12	1

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

Lab Sample ID: 880-27076-4

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

## 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		04/12/23 11:52	04/12/23 18:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 18:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 18:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/12/23 11:52	04/12/23 18:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 18:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/12/23 11:52	04/12/23 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				04/12/23 11:52	04/12/23 18:16	1
1,4-Difluorobenzene (Surr)	54	S1-	70 - 130				04/12/23 11:52	04/12/23 18:16	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			04/13/23 09:53	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			04/13/23 11:28	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		04/12/23 10:00	04/12/23 19:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/12/23 10:00	04/12/23 19:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/12/23 10:00	04/12/23 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				04/12/23 10:00	04/12/23 19:11	1
o-Terphenyl	104		70 - 130				04/12/23 10:00	04/12/23 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	444		4.96		mg/Kg			04/12/23 17:17	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-27076-5

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

## 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		04/12/23 11:52	04/12/23 18:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 18:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 18:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/12/23 11:52	04/12/23 18:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 18:37	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/12/23 11:52	04/12/23 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	04/12/23 11:52	04/12/23 18:37	1
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130	04/12/23 11:52	04/12/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/13/23 09:53	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			04/13/23 11:28	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		04/12/23 10:00	04/12/23 19:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/12/23 10:00	04/12/23 19:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/12/23 10:00	04/12/23 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	04/12/23 10:00	04/12/23 19:34	1
o-Terphenyl	88		70 - 130	04/12/23 10:00	04/12/23 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.3		5.05		mg/Kg			04/12/23 17:22	1

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

Lab Sample ID: 880-27076-6

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

## 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		04/12/23 11:52	04/12/23 18:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 18:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 18:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/12/23 11:52	04/12/23 18:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 18:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/12/23 11:52	04/12/23 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/12/23 11:52	04/12/23 18:57	1
1,4-Difluorobenzene (Surr)	83		70 - 130	04/12/23 11:52	04/12/23 18:57	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-27076-6

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

## 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			04/13/23 09:53	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			04/13/23 11:28	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		04/12/23 10:00	04/12/23 19:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/12/23 10:00	04/12/23 19:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/12/23 10:00	04/12/23 19:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				04/12/23 10:00	04/12/23 19:57	1
o-Terphenyl	92		70 - 130				04/12/23 10:00	04/12/23 19:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		5.02		mg/Kg			04/12/23 17:27	1

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

Lab Sample ID: 880-27076-7

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

## 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		04/12/23 11:52	04/12/23 19:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/12/23 11:52	04/12/23 19:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/12/23 11:52	04/12/23 19:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/12/23 11:52	04/12/23 19:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/12/23 11:52	04/12/23 19:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/12/23 11:52	04/12/23 19:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				04/12/23 11:52	04/12/23 19:18	1
1,4-Difluorobenzene (Surr)	85		70 - 130				04/12/23 11:52	04/12/23 19:18	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			04/13/23 09:53	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			04/13/23 11:28	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		04/12/23 10:00	04/12/23 20:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/12/23 10:00	04/12/23 20:21	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-27076-7

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/12/23 10:00	04/12/23 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				04/12/23 10:00	04/12/23 20:21	1
o-Terphenyl	81		70 - 130				04/12/23 10:00	04/12/23 20:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.5		4.98		mg/Kg			04/12/23 17:42	1

Client Sample ID: H-8 (0-0.5')

Lab Sample ID: 880-27076-8

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

## 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		04/12/23 11:52	04/12/23 19:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/12/23 11:52	04/12/23 19:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/12/23 11:52	04/12/23 19:38	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/12/23 11:52	04/12/23 19:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/12/23 11:52	04/12/23 19:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/12/23 11:52	04/12/23 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/12/23 11:52	04/12/23 19:38	1
1,4-Difluorobenzene (Surr)	108		70 - 130				04/12/23 11:52	04/12/23 19:38	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			04/13/23 09:53	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			04/13/23 11:28	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		04/12/23 10:00	04/12/23 20:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/12/23 10:00	04/12/23 20:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/12/23 10:00	04/12/23 20:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				04/12/23 10:00	04/12/23 20:45	1
o-Terphenyl	80		70 - 130				04/12/23 10:00	04/12/23 20:45	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			04/12/23 17:47	1

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## Surrogate Summary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, 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)
880-26797-A-1-E MS	Matrix Spike	111	105
880-26797-A-1-F MSD	Matrix Spike Duplicate	109	104
880-27076-1	H-1 (0-0.5')	87	96
880-27076-2	H-2 (0-0.5')	89	99
880-27076-3	H-3 (0-0.5')	85	72
880-27076-4	H-4 (0-0.5')	73	54 S1-
880-27076-5	H-5 (0-0.5')	84	63 S1-
880-27076-6	H-6 (0-0.5')	107	83
880-27076-7	H-7 (0-0.5')	106	85
880-27076-8	H-8 (0-0.5')	108	108
LCS 880-50827/1-A	Lab Control Sample	107	106
LCSD 880-50827/2-A	Lab Control Sample Dup	106	109
MB 880-50827/5-A	Method Blank	79	96
<b>Surrogate Legend</b>			
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)
880-26926-A-86-C MS	Matrix Spike	100	77
880-26926-A-86-D MSD	Matrix Spike Duplicate	93	71
880-27076-1	H-1 (0-0.5')	103	94
880-27076-2	H-2 (0-0.5')	119	105
880-27076-3	H-3 (0-0.5')	104	94
880-27076-4	H-4 (0-0.5')	119	104
880-27076-5	H-5 (0-0.5')	101	88
880-27076-6	H-6 (0-0.5')	104	92
880-27076-7	H-7 (0-0.5')	97	81
880-27076-8	H-8 (0-0.5')	97	80
LCS 880-50830/2-A	Lab Control Sample	112	97
LCSD 880-50830/3-A	Lab Control Sample Dup	93	81
MB 880-50830/1-A	Method Blank	135 S1+	123
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

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

Lab Sample ID: MB 880-50827/5-A

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50827

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/10/23 11:52	04/12/23 10:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	04/10/23 11:52	04/12/23 10:50	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/10/23 11:52	04/12/23 10:50	1

Lab Sample ID: LCS 880-50827/1-A

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50827

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1032		mg/Kg		103	70 - 130
Toluene	0.100	0.09878		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.09778		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2100		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1150		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-50827/2-A

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50827

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1107		mg/Kg		111	70 - 130	7	35
Toluene	0.100	0.1032		mg/Kg		103	70 - 130	4	35
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2164		mg/Kg		108	70 - 130	3	35
o-Xylene	0.100	0.1137		mg/Kg		114	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-26797-A-1-E MS

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50827

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0996	0.1070		mg/Kg		107	70 - 130
Toluene	<0.00198	U	0.0996	0.1020		mg/Kg		102	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-26797-A-1-E MS

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50827

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0996	0.1029		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.199	0.2210		mg/Kg		111	70 - 130
o-Xylene	<0.00198	U	0.0996	0.1134		mg/Kg		114	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-26797-A-1-F MSD

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50827

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0994	0.1012		mg/Kg		102	70 - 130	6	35
Toluene	<0.00198	U	0.0994	0.09706		mg/Kg		98	70 - 130	5	35
Ethylbenzene	<0.00198	U	0.0994	0.09702		mg/Kg		98	70 - 130	6	35
m-Xylene & p-Xylene	<0.00396	U	0.199	0.2091		mg/Kg		105	70 - 130	6	35
o-Xylene	<0.00198	U	0.0994	0.1073		mg/Kg		108	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-50830/1-A

Matrix: Solid

Analysis Batch: 50959

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50830

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		04/11/23 12:59	04/12/23 09:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/11/23 12:59	04/12/23 09:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/11/23 12:59	04/12/23 09:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	04/11/23 12:59	04/12/23 09:02	1
o-Terphenyl	123		70 - 130	04/11/23 12:59	04/12/23 09:02	1

Lab Sample ID: LCS 880-50830/2-A

Matrix: Solid

Analysis Batch: 50959

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50830

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	965.8		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1056		mg/Kg		106	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-50830/2-A

Matrix: Solid

Analysis Batch: 50959

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50830

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: LCSD 880-50830/3-A

Matrix: Solid

Analysis Batch: 50959

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50830

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	1000	866.1		mg/Kg		87	70 - 130	20	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: 880-26926-A-86-C MS

Matrix: Solid

Analysis Batch: 50959

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50830

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	922.3		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	962.6		mg/Kg		97	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	77		70 - 130

Lab Sample ID: 880-26926-A-86-D MSD

Matrix: Solid

Analysis Batch: 50959

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50830

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	996	878.3		mg/Kg		88	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	875.3		mg/Kg		88	70 - 130	10	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	71		70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50981/1-A

Matrix: Solid

Analysis Batch: 51039

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			04/12/23 16:05	1

Lab Sample ID: LCS 880-50981/2-A

Matrix: Solid

Analysis Batch: 51039

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	233.7		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-50981/3-A

Matrix: Solid

Analysis Batch: 51039

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	236.5		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 880-27076-6 MS

Matrix: Solid

Analysis Batch: 51039

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	118		251	355.1		mg/Kg		95	90 - 110

Lab Sample ID: 880-27076-6 MSD

Matrix: Solid

Analysis Batch: 51039

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	118		251	355.7		mg/Kg		95	90 - 110	0	20

## QC Association Summary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

## GC VOA

## Prep Batch: 50827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-27076-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-27076-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-27076-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-27076-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-27076-6	H-6 (0-0.5')	Total/NA	Solid	5035	
880-27076-7	H-7 (0-0.5')	Total/NA	Solid	5035	
880-27076-8	H-8 (0-0.5')	Total/NA	Solid	5035	
MB 880-50827/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50827/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50827/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26797-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-26797-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 50945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-1	H-1 (0-0.5')	Total/NA	Solid	8021B	50827
880-27076-2	H-2 (0-0.5')	Total/NA	Solid	8021B	50827
880-27076-3	H-3 (0-0.5')	Total/NA	Solid	8021B	50827
880-27076-4	H-4 (0-0.5')	Total/NA	Solid	8021B	50827
880-27076-5	H-5 (0-0.5')	Total/NA	Solid	8021B	50827
880-27076-6	H-6 (0-0.5')	Total/NA	Solid	8021B	50827
880-27076-7	H-7 (0-0.5')	Total/NA	Solid	8021B	50827
880-27076-8	H-8 (0-0.5')	Total/NA	Solid	8021B	50827
MB 880-50827/5-A	Method Blank	Total/NA	Solid	8021B	50827
LCS 880-50827/1-A	Lab Control Sample	Total/NA	Solid	8021B	50827
LCSD 880-50827/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50827
880-26797-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	50827
880-26797-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50827

## Analysis Batch: 51026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27076-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27076-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27076-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27076-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27076-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27076-7	H-7 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27076-8	H-8 (0-0.5')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 50830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-27076-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-27076-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-27076-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-27076-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-27076-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

## QC Association Summary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

## GC Semi VOA (Continued)

## Prep Batch: 50830 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-7	H-7 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-27076-8	H-8 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-50830/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50830/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50830/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26926-A-86-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26926-A-86-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 50959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	50830
880-27076-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	50830
880-27076-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	50830
880-27076-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	50830
880-27076-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	50830
880-27076-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	50830
880-27076-7	H-7 (0-0.5')	Total/NA	Solid	8015B NM	50830
880-27076-8	H-8 (0-0.5')	Total/NA	Solid	8015B NM	50830
MB 880-50830/1-A	Method Blank	Total/NA	Solid	8015B NM	50830
LCS 880-50830/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50830
LCSD 880-50830/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50830
880-26926-A-86-C MS	Matrix Spike	Total/NA	Solid	8015B NM	50830
880-26926-A-86-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50830

## Analysis Batch: 51055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-27076-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-27076-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-27076-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-27076-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-27076-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	
880-27076-7	H-7 (0-0.5')	Total/NA	Solid	8015 NM	
880-27076-8	H-8 (0-0.5')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 50981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-27076-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-27076-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-27076-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-27076-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-27076-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
880-27076-7	H-7 (0-0.5')	Soluble	Solid	DI Leach	
880-27076-8	H-8 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-50981/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50981/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50981/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-27076-6 MS	H-6 (0-0.5')	Soluble	Solid	DI Leach	

Eurofins Midland

## QC Association Summary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

## HPLC/IC (Continued)

## Leach Batch: 50981 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-6 MSD	H-6 (0-0.5')	Soluble	Solid	DI Leach	

## Analysis Batch: 51039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-1	H-1 (0-0.5')	Soluble	Solid	300.0	50981
880-27076-2	H-2 (0-0.5')	Soluble	Solid	300.0	50981
880-27076-3	H-3 (0-0.5')	Soluble	Solid	300.0	50981
880-27076-4	H-4 (0-0.5')	Soluble	Solid	300.0	50981
880-27076-5	H-5 (0-0.5')	Soluble	Solid	300.0	50981
880-27076-6	H-6 (0-0.5')	Soluble	Solid	300.0	50981
880-27076-7	H-7 (0-0.5')	Soluble	Solid	300.0	50981
880-27076-8	H-8 (0-0.5')	Soluble	Solid	300.0	50981
MB 880-50981/1-A	Method Blank	Soluble	Solid	300.0	50981
LCS 880-50981/2-A	Lab Control Sample	Soluble	Solid	300.0	50981
LCSD 880-50981/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50981
880-27076-6 MS	H-6 (0-0.5')	Soluble	Solid	300.0	50981
880-27076-6 MSD	H-6 (0-0.5')	Soluble	Solid	300.0	50981

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-27076-1

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 17:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51026	04/13/23 09:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51055	04/13/23 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50830	04/12/23 10:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50959	04/12/23 18:03	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51039	04/12/23 17:03	SMC	EET MID

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

Lab Sample ID: 880-27076-2

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 17:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51026	04/13/23 09:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51055	04/13/23 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50830	04/12/23 10:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50959	04/12/23 18:25	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51039	04/12/23 17:08	SMC	EET MID

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

Lab Sample ID: 880-27076-3

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 17:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51026	04/13/23 09:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51055	04/13/23 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50830	04/12/23 10:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50959	04/12/23 18:48	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51039	04/12/23 17:12	SMC	EET MID

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

Lab Sample ID: 880-27076-4

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 18:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51026	04/13/23 09:53	AJ	EET MID

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-27076-4

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

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			51055	04/13/23 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50830	04/12/23 10:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50959	04/12/23 19:11	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51039	04/12/23 17:17	SMC	EET MID

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

Lab Sample ID: 880-27076-5

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 18:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51026	04/13/23 09:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51055	04/13/23 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50830	04/12/23 10:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50959	04/12/23 19:34	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51039	04/12/23 17:22	SMC	EET MID

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

Lab Sample ID: 880-27076-6

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 18:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51026	04/13/23 09:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51055	04/13/23 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50830	04/12/23 10:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50959	04/12/23 19:57	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51039	04/12/23 17:27	SMC	EET MID

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

Lab Sample ID: 880-27076-7

Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 19:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51026	04/13/23 09:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51055	04/13/23 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	50830	04/12/23 10:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50959	04/12/23 20:21	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

Client Sample ID: H-7 (0-0.5')  
Date Collected: 04/05/23 00:00  
Date Received: 04/12/23 09:51

Lab Sample ID: 880-27076-7  
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			5.02 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51039	04/12/23 17:42	SMC	EET MID

Client Sample ID: H-8 (0-0.5')  
Date Collected: 04/05/23 00:00  
Date Received: 04/12/23 09:51

Lab Sample ID: 880-27076-8  
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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 19:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51026	04/13/23 09:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51055	04/13/23 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50830	04/12/23 10:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50959	04/12/23 20:45	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51039	04/12/23 17:47	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: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

## Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

## Method Summary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, 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: Flood AFN #1

Job ID: 880-27076-1  
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-27076-1	H-1 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27076-2	H-2 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27076-3	H-3 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27076-4	H-4 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27076-5	H-5 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27076-6	H-6 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27076-7	H-7 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27076-8	H-8 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51

Work Order No: 27076

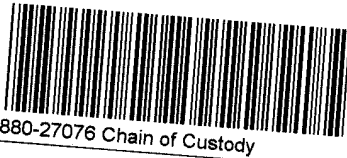
4/13/2023

Page 1 of 1

Project Manager:	Conner Moehring	Bill to: (if different)	Todd Wells
Company Name	Carmona Resources	Company Name	EOG Resources
Address	310 W Wall St Ste 500	Address	5509 Champions Dr
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland Tx 79706
Phone:	432-813-6823	Email	Todd_Wells@eogresources.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> perfund <input type="checkbox"/>
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables EDD	<input type="checkbox"/> ADaPT <input type="checkbox"/> Other

Project Name		Flood AFN #1		Turn Around		ANALYSIS REQUEST																Preservative Codes									
Project Number		2011		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Pres. Code																		None NO DI Water: H <sub>2</sub> O							
Project Location		Lea County, NM		Due Date		24Hrs																				Cool Cool MeOH Me					
Sampler's Name		MM		24 Hours																						HCL. HC HNO <sub>3</sub> HN					
PO #:																										H <sub>2</sub> SO <sub>4</sub> . H <sub>2</sub> NaOH Na					
<b>SAMPLE RECEIPT</b>		Temp Blank		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Wet Ice		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Parameters																		H <sub>3</sub> PO <sub>4</sub> HP			
Received Intact		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Thermometer ID						BTEX 8021B																		NaHSO <sub>4</sub> NABIS			
Cooler Custody Seals		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor						TPH 8015M ( GRO + DRO + MRO)																		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub>			
Sample Custody Seals		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading						Chloride 300																		Zn Acetate+NaOH Zn			
Total Containers.				Corrected Temperature																								NaOH+Ascorbic Acid SAPC			
Sample Identification		Date		Time		Soil		Water		Grab/ Comp		# of Cont																		Sample Comments	
H-1 (0-0 5')		4/5/2023				X				Grab/		1		X X X																402	
H-2 (0-0 5')		4/5/2023				X				Grab/		1		X X X																	
H-3 (0-0 5')		4/5/2023				X				Grab/		1		X X X																	
H-4 (0-0 5')		4/5/2023				X				Grab/		1		X X X																	
H-5 (0-0 5')		4/5/2023				X				Grab/		1		X X X																	
H-6 (0-0 5')		4/5/2023				X				Grab/		1		X X X																	
H-7 (0-0 5')		4/5/2023				X				Grab/		1		X X X																	
H-8 (0-0 5')		4/5/2023				X				Grab/		1		X X X																	



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

Relinquished by (Signature)		Date/Time		Received by (Signature)		Date/Time	
<i>Carmona</i>		4-12-23		<i>[Signature]</i>			
		051					

Page 26 of 27

## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-27076-1

SDG Number: Lea County, NM

Login Number: 27076

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 4/25/2023 9:58:14 AM

## JOB DESCRIPTION

Flood AFN #1  
SDG NUMBER Lea County, NM

## JOB NUMBER

880-27467-1

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  
4/25/2023 9:58:14 AM

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

Client: Carmona Resources  
Project/Site: Flood AFN #1

Laboratory Job ID: 880-27467-1  
SDG: Lea County, NM

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Client Sample Results . . . . .	6
Surrogate Summary . . . . .	16
QC Sample Results . . . . .	17
QC Association Summary . . . . .	22
Lab Chronicle . . . . .	26
Certification Summary . . . . .	30
Method Summary . . . . .	31
Sample Summary . . . . .	32
Chain of Custody . . . . .	33
Receipt Checklists . . . . .	35

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

## Definitions/Glossary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

## Job ID: 880-27467-1

## Laboratory: Eurofins Midland

## Narrative

Job Narrative  
880-27467-1

## Receipt

The samples were received on 4/21/2023 10:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.9°C

## Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (8.5') (880-27467-1), CS-2 (8.5') (880-27467-2), CS-3 (8.5') (880-27467-3), CS-4 (8.5') (880-27467-4), CS-5 (8.5') (880-27467-5), SW-1 (8.5') (880-27467-6), SW-2 (8.5') (880-27467-7), SW-3 (8.5') (880-27467-8), SW-4 (8.5') (880-27467-9), SW-5 (8.5') (880-27467-10), SW-6 (8.5') (880-27467-11), SW-7 (8.5') (880-27467-12) and H-3 (0-0.5) (880-27467-13).

## GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-27436-A-1-A MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-1 (8.5') (880-27467-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

## GC Semi VOA

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: CS-4 (8.5') (880-27467-4), SW-1 (8.5') (880-27467-6) and SW-2 (8.5') (880-27467-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: H-3 (0-0.5) (880-27467-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The method blank for preparation batch 880-51720 and analytical batch 880-51776 contained Gasoline Range Organics (GRO)-C6-C10, Diesel Range Organics (Over C10-C28) and Total TPH above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and 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

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-51743 and 880-51743 and analytical batch 880-51838 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: CS-1 (8.5') (880-27467-1), CS-2 (8.5') (880-27467-2), CS-3 (8.5') (880-27467-3), CS-4 (8.5') (880-27467-4), CS-5 (8.5') (880-27467-5), SW-1 (8.5') (880-27467-6), SW-2 (8.5') (880-27467-7), SW-3 (8.5') (880-27467-8), SW-4 (8.5') (880-27467-9), SW-5 (8.5') (880-27467-10), (880-27467-A-1-I MS) and (880-27467-A-1-J MSD).

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

## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

Client Sample ID: CS-1 (8.5')

Lab Sample ID: 880-27467-1

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

## 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		04/21/23 10:30	04/21/23 12:01	1
<b>Toluene</b>	<b>0.00943</b>		0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 12:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130	04/21/23 10:30	04/21/23 12:01	1
1,4-Difluorobenzene (Surr)	111		70 - 130	04/21/23 10:30	04/21/23 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total BTEX</b>	<b>0.00943</b>		0.00398		mg/Kg			04/21/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total TPH</b>	<b>74.0</b>		50.0		mg/Kg			04/24/23 11:55	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		04/21/23 14:02	04/22/23 21:23	1
Diesel Range Organics (Over C10-C28)	74.0		50.0		mg/Kg		04/21/23 14:02	04/22/23 21:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 14:02	04/22/23 21:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				04/21/23 14:02	04/22/23 21:23	1
o-Terphenyl	110		70 - 130				04/21/23 14:02	04/22/23 21:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>300</b>	<b>F1</b>	4.99		mg/Kg			04/22/23 17:52	1

Client Sample ID: CS-2 (8.5')

Lab Sample ID: 880-27467-2

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

## 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		04/21/23 10:30	04/21/23 12:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 12:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/21/23 10:30	04/21/23 12:22	1
1,4-Difluorobenzene (Surr)	75		70 - 130	04/21/23 10:30	04/21/23 12:22	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

Client Sample ID: CS-2 (8.5')

Lab Sample ID: 880-27467-2

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

## 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			04/21/23 15:12	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			04/24/23 11:55	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		04/21/23 14:02	04/22/23 22:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/21/23 14:02	04/22/23 22:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 14:02	04/22/23 22:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				04/21/23 14:02	04/22/23 22:27	1
o-Terphenyl	114		70 - 130				04/21/23 14:02	04/22/23 22:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	351		5.01		mg/Kg			04/22/23 18:07	1

Client Sample ID: CS-3 (8.5')

Lab Sample ID: 880-27467-3

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

## 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		04/21/23 10:30	04/21/23 12:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 12:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 12:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				04/21/23 10:30	04/21/23 12:42	1
1,4-Difluorobenzene (Surr)	88		70 - 130				04/21/23 10:30	04/21/23 12:42	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			04/21/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.8		50.0		mg/Kg			04/24/23 11:55	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		04/21/23 14:02	04/22/23 22:48	1
Diesel Range Organics (Over C10-C28)	50.8		50.0		mg/Kg		04/21/23 14:02	04/22/23 22:48	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

Client Sample ID: CS-3 (8.5')

Lab Sample ID: 880-27467-3

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 14:02	04/22/23 22:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				04/21/23 14:02	04/22/23 22:48	1
o-Terphenyl	107		70 - 130				04/21/23 14:02	04/22/23 22:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	394		4.96		mg/Kg			04/22/23 18:12	1

Client Sample ID: CS-4 (8.5')

Lab Sample ID: 880-27467-4

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

## 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		04/21/23 10:30	04/21/23 13:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/21/23 10:30	04/21/23 13:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/21/23 10:30	04/21/23 13:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/21/23 10:30	04/21/23 13:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/21/23 10:30	04/21/23 13:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/21/23 10:30	04/21/23 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				04/21/23 10:30	04/21/23 13:03	1
1,4-Difluorobenzene (Surr)	102		70 - 130				04/21/23 10:30	04/21/23 13:03	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			04/21/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	74.4		49.8		mg/Kg			04/24/23 11:55	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		04/21/23 14:02	04/22/23 23:09	1
Diesel Range Organics (Over C10-C28)	74.4		49.8		mg/Kg		04/21/23 14:02	04/22/23 23:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/21/23 14:02	04/22/23 23:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				04/21/23 14:02	04/22/23 23:09	1
o-Terphenyl	123		70 - 130				04/21/23 14:02	04/22/23 23:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	392		5.03		mg/Kg			04/22/23 18:17	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

Client Sample ID: CS-5 (8.5')

Lab Sample ID: 880-27467-5

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

## 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		04/21/23 10:30	04/21/23 13:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 13:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 13:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 13:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 13:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	04/21/23 10:30	04/21/23 13:24	1
1,4-Difluorobenzene (Surr)	105		70 - 130	04/21/23 10:30	04/21/23 13:24	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			04/21/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	72.7		49.9		mg/Kg			04/24/23 11:55	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		04/21/23 14:02	04/22/23 23:30	1
Diesel Range Organics (Over C10-C28)	72.7		49.9		mg/Kg		04/21/23 14:02	04/22/23 23:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/21/23 14:02	04/22/23 23:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	04/21/23 14:02	04/22/23 23:30	1
o-Terphenyl	98		70 - 130	04/21/23 14:02	04/22/23 23:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	365		5.04		mg/Kg			04/22/23 18:21	1

Client Sample ID: SW-1 (8.5')

Lab Sample ID: 880-27467-6

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

## 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		04/21/23 10:30	04/21/23 13:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 13:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 13:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 13:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 13:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	04/21/23 10:30	04/21/23 13:45	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/21/23 10:30	04/21/23 13:45	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

Client Sample ID: SW-1 (8.5')

Lab Sample ID: 880-27467-6

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

## 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			04/21/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	81.5		50.0		mg/Kg			04/24/23 11:55	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		04/21/23 14:02	04/22/23 23:51	1
Diesel Range Organics (Over C10-C28)	81.5		50.0		mg/Kg		04/21/23 14:02	04/22/23 23:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 14:02	04/22/23 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130				04/21/23 14:02	04/22/23 23:51	1
o-Terphenyl	125		70 - 130				04/21/23 14:02	04/22/23 23:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	318		5.02		mg/Kg			04/22/23 18:36	1

Client Sample ID: SW-2 (8.5')

Lab Sample ID: 880-27467-7

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

## 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		04/21/23 10:30	04/21/23 14:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/21/23 10:30	04/21/23 14:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/21/23 10:30	04/21/23 14:05	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/21/23 10:30	04/21/23 14:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/21/23 10:30	04/21/23 14:05	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/21/23 10:30	04/21/23 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				04/21/23 10:30	04/21/23 14:05	1
1,4-Difluorobenzene (Surr)	79		70 - 130				04/21/23 10:30	04/21/23 14:05	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			04/21/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.3		49.9		mg/Kg			04/24/23 11:55	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		04/21/23 14:02	04/23/23 00:12	1
Diesel Range Organics (Over C10-C28)	69.3		49.9		mg/Kg		04/21/23 14:02	04/23/23 00:12	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

Client Sample ID: SW-2 (8.5')

Lab Sample ID: 880-27467-7

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/21/23 14:02	04/23/23 00:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130				04/21/23 14:02	04/23/23 00:12	1
o-Terphenyl	127		70 - 130				04/21/23 14:02	04/23/23 00:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	345		4.97		mg/Kg			04/22/23 18:41	1

Client Sample ID: SW-3 (8.5')

Lab Sample ID: 880-27467-8

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

## 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		04/21/23 10:30	04/21/23 14:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 14:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 14:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 14:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 14:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				04/21/23 10:30	04/21/23 14:26	1
1,4-Difluorobenzene (Surr)	93		70 - 130				04/21/23 10:30	04/21/23 14:26	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			04/21/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.7		49.8		mg/Kg			04/24/23 11:55	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		04/21/23 14:02	04/23/23 00:33	1
Diesel Range Organics (Over C10-C28)	67.7		49.8		mg/Kg		04/21/23 14:02	04/23/23 00:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/21/23 14:02	04/23/23 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				04/21/23 14:02	04/23/23 00:33	1
o-Terphenyl	106		70 - 130				04/21/23 14:02	04/23/23 00:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	334		4.98		mg/Kg			04/22/23 18:46	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

Client Sample ID: SW-4 (8.5')

Lab Sample ID: 880-27467-9

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

## 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		04/21/23 10:30	04/21/23 15:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/23 10:30	04/21/23 15:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/23 10:30	04/21/23 15:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/21/23 10:30	04/21/23 15:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/23 10:30	04/21/23 15:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/21/23 10:30	04/21/23 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/21/23 10:30	04/21/23 15:49	1
1,4-Difluorobenzene (Surr)	104		70 - 130	04/21/23 10:30	04/21/23 15:49	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			04/24/23 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	64.0		49.9		mg/Kg			04/24/23 11:55	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		04/21/23 14:02	04/23/23 00:53	1
Diesel Range Organics (Over C10-C28)	64.0		49.9		mg/Kg		04/21/23 14:02	04/23/23 00:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/21/23 14:02	04/23/23 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	04/21/23 14:02	04/23/23 00:53	1
o-Terphenyl	114		70 - 130	04/21/23 14:02	04/23/23 00:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	363		5.01		mg/Kg			04/22/23 18:50	1

Client Sample ID: SW-5 (8.5')

Lab Sample ID: 880-27467-10

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

## 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		04/21/23 10:30	04/21/23 16:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/21/23 10:30	04/21/23 16:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/21/23 10:30	04/21/23 16:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/21/23 10:30	04/21/23 16:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/21/23 10:30	04/21/23 16:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/21/23 10:30	04/21/23 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/21/23 10:30	04/21/23 16:10	1
1,4-Difluorobenzene (Surr)	106		70 - 130	04/21/23 10:30	04/21/23 16:10	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

Client Sample ID: SW-5 (8.5')

Lab Sample ID: 880-27467-10

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

## 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			04/24/23 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	57.7		49.9		mg/Kg			04/24/23 11:55	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		04/21/23 14:02	04/23/23 01:14	1
Diesel Range Organics (Over C10-C28)	57.7		49.9		mg/Kg		04/21/23 14:02	04/23/23 01:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/21/23 14:02	04/23/23 01:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				04/21/23 14:02	04/23/23 01:14	1
o-Terphenyl	109		70 - 130				04/21/23 14:02	04/23/23 01:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	360		4.99		mg/Kg			04/22/23 18:55	1

Client Sample ID: SW-6 (8.5')

Lab Sample ID: 880-27467-11

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

## 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		04/21/23 10:30	04/21/23 16:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/23 10:30	04/21/23 16:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/23 10:30	04/21/23 16:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/21/23 10:30	04/21/23 16:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/23 10:30	04/21/23 16:31	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/21/23 10:30	04/21/23 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				04/21/23 10:30	04/21/23 16:31	1
1,4-Difluorobenzene (Surr)	108		70 - 130				04/21/23 10:30	04/21/23 16:31	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			04/24/23 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	58.8		50.0		mg/Kg			04/24/23 11:55	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		04/21/23 14:02	04/23/23 01:54	1
Diesel Range Organics (Over C10-C28)	58.8		50.0		mg/Kg		04/21/23 14:02	04/23/23 01:54	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

Client Sample ID: SW-6 (8.5')

Lab Sample ID: 880-27467-11

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 14:02	04/23/23 01:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				04/21/23 14:02	04/23/23 01:54	1
o-Terphenyl	114		70 - 130				04/21/23 14:02	04/23/23 01:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	368		4.97		mg/Kg			04/23/23 05:54	1

Client Sample ID: SW-7 (8.5')

Lab Sample ID: 880-27467-12

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

## 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		04/21/23 10:30	04/21/23 16:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 16:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 16:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 16:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 16:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 16:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				04/21/23 10:30	04/21/23 16:52	1
1,4-Difluorobenzene (Surr)	104		70 - 130				04/21/23 10:30	04/21/23 16:52	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			04/24/23 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	85.3		50.0		mg/Kg			04/24/23 11:55	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		04/21/23 14:02	04/23/23 02:15	1
Diesel Range Organics (Over C10-C28)	85.3		50.0		mg/Kg		04/21/23 14:02	04/23/23 02:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 14:02	04/23/23 02:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				04/21/23 14:02	04/23/23 02:15	1
o-Terphenyl	114		70 - 130				04/21/23 14:02	04/23/23 02:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	328		5.01		mg/Kg			04/23/23 06:07	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-27467-13

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

## 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		04/21/23 10:30	04/21/23 17:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 17:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 17:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 17:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 17:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	04/21/23 10:30	04/21/23 17:12	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/21/23 10:30	04/21/23 17:12	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			04/24/23 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	86.0		49.8		mg/Kg			04/24/23 11:55	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		04/21/23 14:02	04/23/23 02:36	1
Diesel Range Organics (Over C10-C28)	86.0		49.8		mg/Kg		04/21/23 14:02	04/23/23 02:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/21/23 14:02	04/23/23 02:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130	04/21/23 14:02	04/23/23 02:36	1
o-Terphenyl	132	S1+	70 - 130	04/21/23 14:02	04/23/23 02:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	343		5.04		mg/Kg			04/23/23 06:12	1

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## Surrogate Summary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, 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)
880-27436-A-1-A MS	Matrix Spike	138 S1+	98
880-27436-A-1-B MSD	Matrix Spike Duplicate	125	87
880-27467-1	CS-1 (8.5')	63 S1-	111
880-27467-2	CS-2 (8.5')	97	75
880-27467-3	CS-3 (8.5')	117	88
880-27467-4	CS-4 (8.5')	125	102
880-27467-5	CS-5 (8.5')	123	105
880-27467-6	SW-1 (8.5')	123	108
880-27467-7	SW-2 (8.5')	93	79
880-27467-8	SW-3 (8.5')	124	93
880-27467-9	SW-4 (8.5')	108	104
880-27467-10	SW-5 (8.5')	113	106
880-27467-11	SW-6 (8.5')	111	108
880-27467-12	SW-7 (8.5')	114	104
880-27467-13	H-3 (0-0.5)	121	93
LCS 880-51667/1-A	Lab Control Sample	104	95
LCSD 880-51667/2-A	Lab Control Sample Dup	113	94
MB 880-51667/5-A	Method Blank	104	85
<b>Surrogate Legend</b>			
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)
880-27467-1	CS-1 (8.5')	121	110
880-27467-1 MS	CS-1 (8.5')	111	90
880-27467-1 MSD	CS-1 (8.5')	115	96
880-27467-2	CS-2 (8.5')	130	114
880-27467-3	CS-3 (8.5')	124	107
880-27467-4	CS-4 (8.5')	139 S1+	123
880-27467-5	CS-5 (8.5')	109	98
880-27467-6	SW-1 (8.5')	142 S1+	125
880-27467-7	SW-2 (8.5')	144 S1+	127
880-27467-8	SW-3 (8.5')	119	106
880-27467-9	SW-4 (8.5')	126	114
880-27467-10	SW-5 (8.5')	120	109
880-27467-11	SW-6 (8.5')	127	114
880-27467-12	SW-7 (8.5')	127	114
880-27467-13	H-3 (0-0.5)	149 S1+	132 S1+
LCS 880-51720/2-A	Lab Control Sample	98	93
LCSD 880-51720/3-A	Lab Control Sample Dup	103	95
MB 880-51720/1-A	Method Blank	120	124
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

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

Lab Sample ID: MB 880-51667/5-A

Matrix: Solid

Analysis Batch: 51665

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51667

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/23 08:49	04/21/23 10:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/23 08:49	04/21/23 10:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/23 08:49	04/21/23 10:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/21/23 08:49	04/21/23 10:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/23 08:49	04/21/23 10:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/21/23 08:49	04/21/23 10:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/21/23 08:49	04/21/23 10:58	1
1,4-Difluorobenzene (Surr)	85		70 - 130	04/21/23 08:49	04/21/23 10:58	1

Lab Sample ID: LCS 880-51667/1-A

Matrix: Solid

Analysis Batch: 51665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1064		mg/Kg		106	70 - 130
Toluene	0.100	0.1005		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1030		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2116		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-51667/2-A

Matrix: Solid

Analysis Batch: 51665

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51667

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09924		mg/Kg		99	70 - 130	7	35
Toluene	0.100	0.09635		mg/Kg		96	70 - 130	4	35
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2060		mg/Kg		103	70 - 130	3	35
o-Xylene	0.100	0.1065		mg/Kg		106	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-27436-A-1-A MS

Matrix: Solid

Analysis Batch: 51665

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 51667

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.08470		mg/Kg		85	70 - 130
Toluene	0.00345		0.0998	0.1007		mg/Kg		97	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

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

Lab Sample ID: 880-27436-A-1-A MS

Matrix: Solid

Analysis Batch: 51665

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 51667

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0998	0.1169		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2515		mg/Kg		125	70 - 130
o-Xylene	<0.00199	U	0.0998	0.1220		mg/Kg		121	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-27436-A-1-B MSD

Matrix: Solid

Analysis Batch: 51665

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 51667

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.08431		mg/Kg		85	70 - 130	0	35
Toluene	0.00345		0.0990	0.08838		mg/Kg		86	70 - 130	13	35
Ethylbenzene	<0.00199	U	0.0990	0.09808		mg/Kg		98	70 - 130	18	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2057		mg/Kg		103	70 - 130	20	35
o-Xylene	<0.00199	U	0.0990	0.09935		mg/Kg		99	70 - 130	20	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

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

Lab Sample ID: MB 880-51720/1-A

Matrix: Solid

Analysis Batch: 51776

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51720

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		04/21/23 14:02	04/22/23 20:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/21/23 14:02	04/22/23 20:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 14:02	04/22/23 20:18	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	04/21/23 14:02	04/22/23 20:18	1
o-Terphenyl	124		70 - 130	04/21/23 14:02	04/22/23 20:18	1

Lab Sample ID: LCS 880-51720/2-A

Matrix: Solid

Analysis Batch: 51776

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51720

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	814.8		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	816.5		mg/Kg		82	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-51720/2-A

Matrix: Solid

Analysis Batch: 51776

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51720

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: LCSD 880-51720/3-A

Matrix: Solid

Analysis Batch: 51776

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51720

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	842.4		mg/Kg		84	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	940.6		mg/Kg		94	70 - 130	14	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 880-27467-1 MS

Matrix: Solid

Analysis Batch: 51776

Client Sample ID: CS-1 (8.5')

Prep Type: Total/NA

Prep Batch: 51720

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	920.2		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)	74.0		997	899.9		mg/Kg		83	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-27467-1 MSD

Matrix: Solid

Analysis Batch: 51776

Client Sample ID: CS-1 (8.5')

Prep Type: Total/NA

Prep Batch: 51720

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	<50.0	U	998	848.7		mg/Kg		83	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	74.0		998	952.4		mg/Kg		88	70 - 130	6	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	96		70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-51733/1-A

Matrix: Solid

Analysis Batch: 51836

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			04/23/23 04:17	1

Lab Sample ID: LCS 880-51733/2-A

Matrix: Solid

Analysis Batch: 51836

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	269.8		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-51733/3-A

Matrix: Solid

Analysis Batch: 51836

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	264.7		mg/Kg		106	90 - 110	2	20

Lab Sample ID: 880-27403-A-4-D MS

Matrix: Solid

Analysis Batch: 51836

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	1540		1260	2836		mg/Kg		103	90 - 110

Lab Sample ID: 880-27403-A-4-E MSD

Matrix: Solid

Analysis Batch: 51836

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	1540		1260	2791		mg/Kg		100	90 - 110	2	20

Lab Sample ID: MB 880-51743/1-A

Matrix: Solid

Analysis Batch: 51838

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			04/22/23 17:38	1

Lab Sample ID: LCS 880-51743/2-A

Matrix: Solid

Analysis Batch: 51838

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	269.2		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-51743/3-A

Matrix: Solid

Analysis Batch: 51838

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	267.3		mg/Kg		107	90 - 110	1	20

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QC Sample Results

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-27467-1 MS											Client Sample ID: CS-1 (8.5')		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 51838													
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	300	F1	250	511.6	F1	mg/Kg		85	90 - 110				

Lab Sample ID: 880-27467-1 MSD											Client Sample ID: CS-1 (8.5')		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 51838													
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	RPD Limit	
Chloride	300	F1	250	505.0	F1	mg/Kg		82	90 - 110		1	20	

## QC Association Summary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

## GC VOA

## Analysis Batch: 51665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-1	CS-1 (8.5')	Total/NA	Solid	8021B	51667
880-27467-2	CS-2 (8.5')	Total/NA	Solid	8021B	51667
880-27467-3	CS-3 (8.5')	Total/NA	Solid	8021B	51667
880-27467-4	CS-4 (8.5')	Total/NA	Solid	8021B	51667
880-27467-5	CS-5 (8.5')	Total/NA	Solid	8021B	51667
880-27467-6	SW-1 (8.5')	Total/NA	Solid	8021B	51667
880-27467-7	SW-2 (8.5')	Total/NA	Solid	8021B	51667
880-27467-8	SW-3 (8.5')	Total/NA	Solid	8021B	51667
880-27467-9	SW-4 (8.5')	Total/NA	Solid	8021B	51667
880-27467-10	SW-5 (8.5')	Total/NA	Solid	8021B	51667
880-27467-11	SW-6 (8.5')	Total/NA	Solid	8021B	51667
880-27467-12	SW-7 (8.5')	Total/NA	Solid	8021B	51667
880-27467-13	H-3 (0-0.5)	Total/NA	Solid	8021B	51667
MB 880-51667/5-A	Method Blank	Total/NA	Solid	8021B	51667
LCS 880-51667/1-A	Lab Control Sample	Total/NA	Solid	8021B	51667
LCSD 880-51667/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51667
880-27436-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	51667
880-27436-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	51667

## Prep Batch: 51667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-1	CS-1 (8.5')	Total/NA	Solid	5035	
880-27467-2	CS-2 (8.5')	Total/NA	Solid	5035	
880-27467-3	CS-3 (8.5')	Total/NA	Solid	5035	
880-27467-4	CS-4 (8.5')	Total/NA	Solid	5035	
880-27467-5	CS-5 (8.5')	Total/NA	Solid	5035	
880-27467-6	SW-1 (8.5')	Total/NA	Solid	5035	
880-27467-7	SW-2 (8.5')	Total/NA	Solid	5035	
880-27467-8	SW-3 (8.5')	Total/NA	Solid	5035	
880-27467-9	SW-4 (8.5')	Total/NA	Solid	5035	
880-27467-10	SW-5 (8.5')	Total/NA	Solid	5035	
880-27467-11	SW-6 (8.5')	Total/NA	Solid	5035	
880-27467-12	SW-7 (8.5')	Total/NA	Solid	5035	
880-27467-13	H-3 (0-0.5)	Total/NA	Solid	5035	
MB 880-51667/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51667/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51667/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-27436-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-27436-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 51751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-1	CS-1 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-2	CS-2 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-3	CS-3 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-4	CS-4 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-5	CS-5 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-6	SW-1 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-7	SW-2 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-8	SW-3 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-9	SW-4 (8.5')	Total/NA	Solid	Total BTEX	

Eurofins Midland

## QC Association Summary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

## GC VOA (Continued)

## Analysis Batch: 51751 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-10	SW-5 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-11	SW-6 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-12	SW-7 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-13	H-3 (0-0.5)	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 51720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-1	CS-1 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-2	CS-2 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-3	CS-3 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-4	CS-4 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-5	CS-5 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-6	SW-1 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-7	SW-2 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-8	SW-3 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-9	SW-4 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-10	SW-5 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-11	SW-6 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-12	SW-7 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-13	H-3 (0-0.5)	Total/NA	Solid	8015NM Prep	
MB 880-51720/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51720/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51720/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-27467-1 MS	CS-1 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-1 MSD	CS-1 (8.5')	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 51776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-1	CS-1 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-2	CS-2 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-3	CS-3 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-4	CS-4 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-5	CS-5 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-6	SW-1 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-7	SW-2 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-8	SW-3 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-9	SW-4 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-10	SW-5 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-11	SW-6 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-12	SW-7 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-13	H-3 (0-0.5)	Total/NA	Solid	8015B NM	51720
MB 880-51720/1-A	Method Blank	Total/NA	Solid	8015B NM	51720
LCS 880-51720/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51720
LCSD 880-51720/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51720
880-27467-1 MS	CS-1 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-1 MSD	CS-1 (8.5')	Total/NA	Solid	8015B NM	51720

Eurofins Midland

## QC Association Summary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

## GC Semi VOA

## Analysis Batch: 51844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-1	CS-1 (8.5')	Total/NA	Solid	8015 NM	
880-27467-2	CS-2 (8.5')	Total/NA	Solid	8015 NM	
880-27467-3	CS-3 (8.5')	Total/NA	Solid	8015 NM	
880-27467-4	CS-4 (8.5')	Total/NA	Solid	8015 NM	
880-27467-5	CS-5 (8.5')	Total/NA	Solid	8015 NM	
880-27467-6	SW-1 (8.5')	Total/NA	Solid	8015 NM	
880-27467-7	SW-2 (8.5')	Total/NA	Solid	8015 NM	
880-27467-8	SW-3 (8.5')	Total/NA	Solid	8015 NM	
880-27467-9	SW-4 (8.5')	Total/NA	Solid	8015 NM	
880-27467-10	SW-5 (8.5')	Total/NA	Solid	8015 NM	
880-27467-11	SW-6 (8.5')	Total/NA	Solid	8015 NM	
880-27467-12	SW-7 (8.5')	Total/NA	Solid	8015 NM	
880-27467-13	H-3 (0-0.5)	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 51733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-11	SW-6 (8.5')	Soluble	Solid	DI Leach	
880-27467-12	SW-7 (8.5')	Soluble	Solid	DI Leach	
880-27467-13	H-3 (0-0.5)	Soluble	Solid	DI Leach	
MB 880-51733/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51733/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51733/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-27403-A-4-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-27403-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Leach Batch: 51743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-1	CS-1 (8.5')	Soluble	Solid	DI Leach	
880-27467-2	CS-2 (8.5')	Soluble	Solid	DI Leach	
880-27467-3	CS-3 (8.5')	Soluble	Solid	DI Leach	
880-27467-4	CS-4 (8.5')	Soluble	Solid	DI Leach	
880-27467-5	CS-5 (8.5')	Soluble	Solid	DI Leach	
880-27467-6	SW-1 (8.5')	Soluble	Solid	DI Leach	
880-27467-7	SW-2 (8.5')	Soluble	Solid	DI Leach	
880-27467-8	SW-3 (8.5')	Soluble	Solid	DI Leach	
880-27467-9	SW-4 (8.5')	Soluble	Solid	DI Leach	
880-27467-10	SW-5 (8.5')	Soluble	Solid	DI Leach	
MB 880-51743/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51743/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51743/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-27467-1 MS	CS-1 (8.5')	Soluble	Solid	DI Leach	
880-27467-1 MSD	CS-1 (8.5')	Soluble	Solid	DI Leach	

## Analysis Batch: 51836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-11	SW-6 (8.5')	Soluble	Solid	300.0	51733
880-27467-12	SW-7 (8.5')	Soluble	Solid	300.0	51733
880-27467-13	H-3 (0-0.5)	Soluble	Solid	300.0	51733
MB 880-51733/1-A	Method Blank	Soluble	Solid	300.0	51733

Eurofins Midland

## QC Association Summary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

## HPLC/IC (Continued)

## Analysis Batch: 51836 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-51733/2-A	Lab Control Sample	Soluble	Solid	300.0	51733
LCSD 880-51733/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51733
880-27403-A-4-D MS	Matrix Spike	Soluble	Solid	300.0	51733
880-27403-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	51733

## Analysis Batch: 51838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-1	CS-1 (8.5')	Soluble	Solid	300.0	51743
880-27467-2	CS-2 (8.5')	Soluble	Solid	300.0	51743
880-27467-3	CS-3 (8.5')	Soluble	Solid	300.0	51743
880-27467-4	CS-4 (8.5')	Soluble	Solid	300.0	51743
880-27467-5	CS-5 (8.5')	Soluble	Solid	300.0	51743
880-27467-6	SW-1 (8.5')	Soluble	Solid	300.0	51743
880-27467-7	SW-2 (8.5')	Soluble	Solid	300.0	51743
880-27467-8	SW-3 (8.5')	Soluble	Solid	300.0	51743
880-27467-9	SW-4 (8.5')	Soluble	Solid	300.0	51743
880-27467-10	SW-5 (8.5')	Soluble	Solid	300.0	51743
MB 880-51743/1-A	Method Blank	Soluble	Solid	300.0	51743
LCS 880-51743/2-A	Lab Control Sample	Soluble	Solid	300.0	51743
LCSD 880-51743/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51743
880-27467-1 MS	CS-1 (8.5')	Soluble	Solid	300.0	51743
880-27467-1 MSD	CS-1 (8.5')	Soluble	Solid	300.0	51743

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

Client Sample ID: CS-1 (8.5')

Lab Sample ID: 880-27467-1

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

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	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 12:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/21/23 15:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 21:23	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	51743	04/21/23 14:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51838	04/22/23 17:52	SMC	EET MID

Client Sample ID: CS-2 (8.5')

Lab Sample ID: 880-27467-2

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

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	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 12:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/21/23 15:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 22:27	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51743	04/21/23 14:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51838	04/22/23 18:07	SMC	EET MID

Client Sample ID: CS-3 (8.5')

Lab Sample ID: 880-27467-3

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

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	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 12:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/21/23 15:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 22:48	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	51743	04/21/23 14:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51838	04/22/23 18:12	SMC	EET MID

Client Sample ID: CS-4 (8.5')

Lab Sample ID: 880-27467-4

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

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	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 13:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/21/23 15:12	SM	EET MID

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

Client Sample ID: CS-4 (8.5')

Lab Sample ID: 880-27467-4

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

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			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 23:09	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51743	04/21/23 14:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51838	04/22/23 18:17	SMC	EET MID

Client Sample ID: CS-5 (8.5')

Lab Sample ID: 880-27467-5

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

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	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 13:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/21/23 15:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 23:30	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	51743	04/21/23 14:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51838	04/22/23 18:21	SMC	EET MID

Client Sample ID: SW-1 (8.5')

Lab Sample ID: 880-27467-6

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

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	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 13:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/21/23 15:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 23:51	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51743	04/21/23 14:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51838	04/22/23 18:36	SMC	EET MID

Client Sample ID: SW-2 (8.5')

Lab Sample ID: 880-27467-7

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

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	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 14:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/21/23 15:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/23/23 00:12	SM	EET MID

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

Client Sample ID: SW-2 (8.5')

Lab Sample ID: 880-27467-7

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	51743	04/21/23 14:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51838	04/22/23 18:41	SMC	EET MID

Client Sample ID: SW-3 (8.5')

Lab Sample ID: 880-27467-8

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

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	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 14:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/21/23 15:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/23/23 00:33	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51743	04/21/23 14:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51838	04/22/23 18:46	SMC	EET MID

Client Sample ID: SW-4 (8.5')

Lab Sample ID: 880-27467-9

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

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	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 15:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/24/23 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/23/23 00:53	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51743	04/21/23 14:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51838	04/22/23 18:50	SMC	EET MID

Client Sample ID: SW-5 (8.5')

Lab Sample ID: 880-27467-10

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

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	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 16:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/24/23 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/23/23 01:14	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	51743	04/21/23 14:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51838	04/22/23 18:55	SMC	EET MID

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

Client Sample ID: SW-6 (8.5')

Lab Sample ID: 880-27467-11

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

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	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 16:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/24/23 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/23/23 01:54	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	51733	04/21/23 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51836	04/23/23 05:54	SMC	EET MID

Client Sample ID: SW-7 (8.5')

Lab Sample ID: 880-27467-12

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

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	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 16:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/24/23 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/23/23 02:15	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51733	04/21/23 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51836	04/23/23 06:07	SMC	EET MID

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

Lab Sample ID: 880-27467-13

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

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	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 17:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/24/23 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/23/23 02:36	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	51733	04/21/23 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51836	04/23/23 06:12	SMC	EET MID

## Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

## Method Summary

Client: Carmona Resources  
Project/Site: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, 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: Flood AFN #1

Job ID: 880-27467-1  
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-27467-1	CS-1 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20
880-27467-2	CS-2 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20
880-27467-3	CS-3 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20
880-27467-4	CS-4 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20
880-27467-5	CS-5 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20
880-27467-6	SW-1 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20
880-27467-7	SW-2 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20
880-27467-8	SW-3 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20
880-27467-9	SW-4 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20
880-27467-10	SW-5 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20
880-27467-11	SW-6 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20
880-27467-12	SW-7 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20
880-27467-13	H-3 (0-0.5)	Solid	04/20/23 00:00	04/21/23 10:20

City of Cleburne

Work Order No: 27467

Page 1 of 2

Project Manager:	Conner Moehring	Bill to: (if different)	Todd Wells
Company Name:	Carmona Resources	Company Name:	EOG Resources
Address:	310 W Wall St Ste 500	Address:	5509 Champions Dr
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Tx 79706
Phone:	432-813-6823	Email:	Todd_Wells@eogresources.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Perfund <input type="checkbox"/>
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables EDD	<input type="checkbox"/> ADaPT <input type="checkbox"/> Other

Project Name:		Flood AFN #1		Turn Around		Pres. Code		ANALYSIS REQUEST												Preservative Codes							
Project Number:		2011		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush																None NO DI Water: H <sub>2</sub> O							
Project Location:		Lea County, NM		Due Date		24Hrs														Cool Cool MeOH Me							
Sampler's Name:		MM		24 Hours														HCL. HC HNO <sub>3</sub> HN									
PO #:																		H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub> NaOH Na									
SAMPLE RECEIPT		Temp Blank.		Yes No		Wet Ice		Yes No														H <sub>3</sub> PO <sub>4</sub> HP					
Received Intact:		Yes No		Thermometer ID																NaHSO <sub>4</sub> NABIS							
Cooler Custody Seals:		Yes No N/A		Correction Factor																Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub>							
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	
CS-1 (8.5')		4/20/2023				X				Comp		1		X X X												402	
CS-2 (8.5')		4/20/2023				X				Comp		1		X X X													
CS-3 (8.5')		4/20/2023				X				Comp		1		X X X													
CS-4 (8.5')		4/20/2023				X				Comp		1		X X X													
CS-5 (8.5')		4/20/2023				X				Comp		1		X X X													
SW-1 (8.5')		4/20/2023				X				Comp		1		X X X													
SW-2 (8.5')		4/20/2023				X				Comp		1		X X X													
SW-3 (8.5')		4/20/2023				X				Comp		1		X X X													
SW-4 (8.5')		4/20/2023				X				Comp		1		X X X													
SW-5 (8.5')		4/20/2023				X				Comp		1		X X X													



880-27467 Chain of Custody

Comments: Email to Mike Carmona / mcarmona@carmonaresources.com and Conner Moehring / cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Ananda Mas</i>	4-21-23 1020	<i>[Signature]</i>	

Page 2 of 2

Work Order Comments			
<b>Program:</b> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/>			
<b>State of Project:</b>			
<b>Reporting Level</b> II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>			
<b>Deliverables</b> EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:			

Comments: Email to Mike Carmona / [Mcarmona@carmonaresources.com](mailto:Mcarmona@carmonaresources.com) and Conner Moehring / [Cmoehring@carmonaresources.com](mailto:Cmoehring@carmonaresources.com)

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
<i>Ana Maria</i>	4-21-23 1020	<i>[Signature]</i>	

## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-27467-1  
SDG Number: Lea County, NM

Login Number: 27467

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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

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

CONDITIONS  
  
Action 215536

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 215536
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	7/28/2023