

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: *Jac. Lj* Date: \_\_\_\_\_

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

**OCD Only**

Received by: Jocelyn Harimon Date: 02/02/2023

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: *Robert Hamlet* Date: 6/1/2023

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced



## SITE INFORMATION

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**Closure Report**  
**Irwin 23-14 Federal Battery**  
**Incident ID: NRM2017854640**  
**Eddy County, New Mexico**  
**Unit G Sec 23 T19S R30E**  
**32.647348°, -103.939782°**

**Produced Water Release**  
**Point of Release: Transfer Pump**  
**Release Date: 06/20/2020**  
**Volume Released: 112 Barrels of Produced Water**  
**Volume Recovered: 30 Barrels of Produced Water**

**CARMONA RESOURCES**



**Prepared for:**  
**Cimarex Energy Co. of Colorado**  
**600 N. Marienfeld Street**  
**Suite 600**  
**Midland, Texas 79701**

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



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February 2, 2023

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

**Re: Closure Report**  
**Irwin 23-14 Federal Battery**  
**Cimarex Energy Co. of Colorado**  
**Site Location: Unit G, S23, T19S, R30E**  
**(Lat 32.647348°, Long -103.939782°)**  
**Eddy County, New Mexico**

To whom it may concern:

On behalf of Cimarex Energy Co. of Colorado (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for the Irwin 23-14 Federal Battery. The site is located at 32.647348°, -103.939782° within Unit G, S23, T19S, R30E, in Eddy County, New Mexico (Figures 1 and 2).

### **1.0 Site information and Background**

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on June 20, 2020, caused by a failed seal on a transfer pump. It resulted in approximately one-hundred and twelve (112) barrels of produced water released, and thirty (30) barrels of produced water were recovered. The impacted area is located on the pad. Refer to Figure 3 for spill overview. The initial C-141 form is attached in Appendix C.

### **2.0 Site Characterization and Groundwater**

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, one known water source is located within a 0.50-mile radius of the location. The nearest identified well is approximately 0.84 miles Southeast of the site in S25, T19S, R30E and was drilled in 2011. The well has a reported depth to groundwater of 65' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

### **3.0 NMAC Regulatory Criteria**

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

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

### **4.0 Site Assessment Activities**

On November 29, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, four (4) sample points and four (4) horizontal sample points were advanced to depths ranging from the surface to 5' bgs inside the area of concern. See Figure 3

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





for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. Refer to Table 1.

## **5.0 Remediation Activities**

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on January 9, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 and S-2 was excavated to a depth of 11.0' below the surface, and the area of S-3 was excavated to a depth of 7.0' below the surface to remove all the impacted soils. A total of nine (9) confirmation floor samples were collected (CS-1 through CS-9), and thirteen (13) sidewall samples (SW-1 through SW-13) 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 4500. 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 final confirmation samples were below the regulatory requirements for TPH, BTEX, and chloride. Refer to Table 2.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 760 cubic yards of material were excavated and transported offsite for proper disposal.

## **6.0 Conclusion**

Based on the assessment results and the analytical data, no further actions are required at the site. The final C-141 is attached, and Cimarex formally requests the closure of the spill. 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

Ashton Thielke  
Sr. Project Manager

## FIGURES

CARMONA RESOURCES



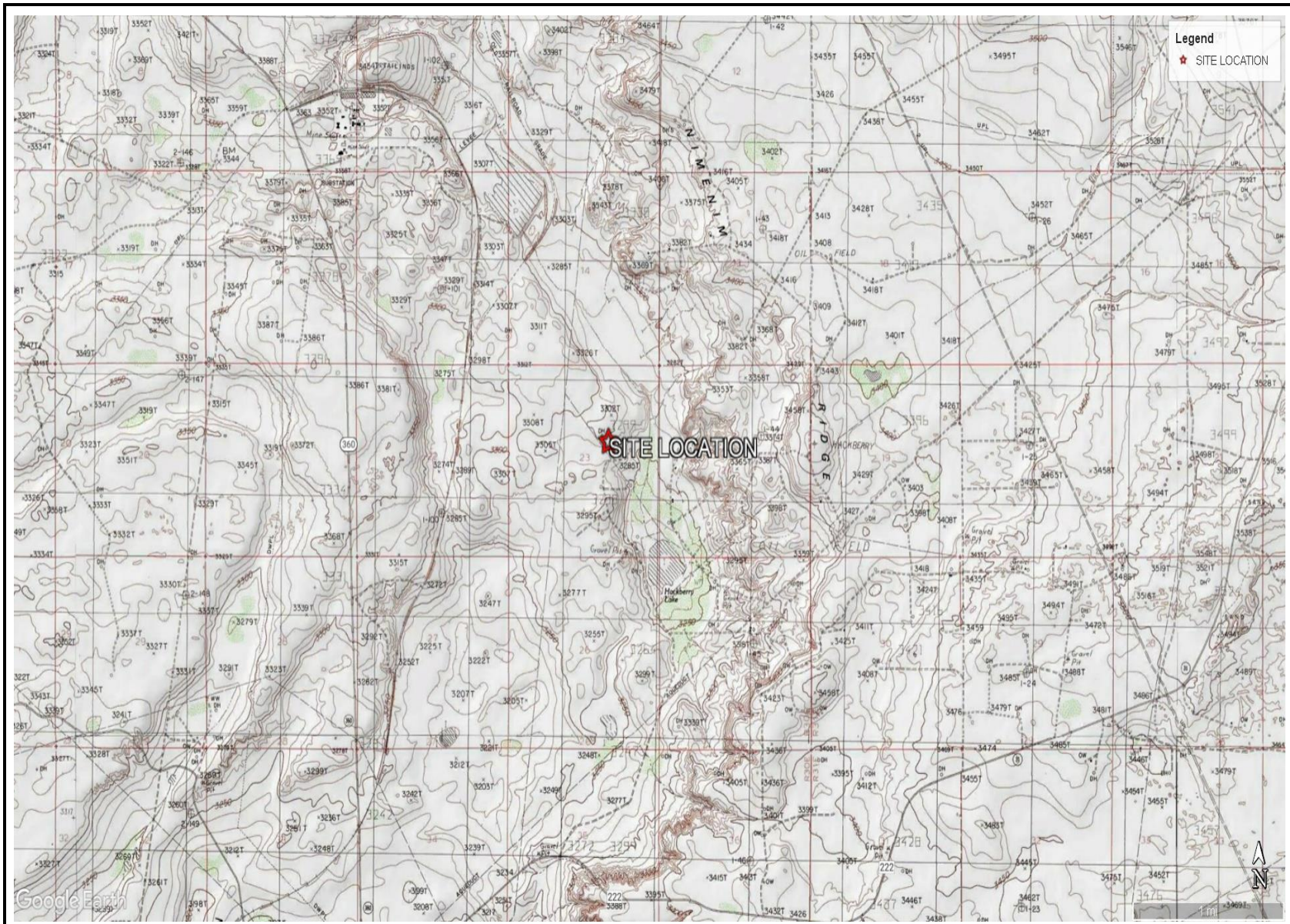


OVERVIEW MAP  
CIMAREX ENERGY CO. OF COLORADO  
IRWIN 23-14 FEDERAL BATTERY  
EDDY COUNTY, NEW MEXICO  
32.647348, -103.939782



FIGURE 1



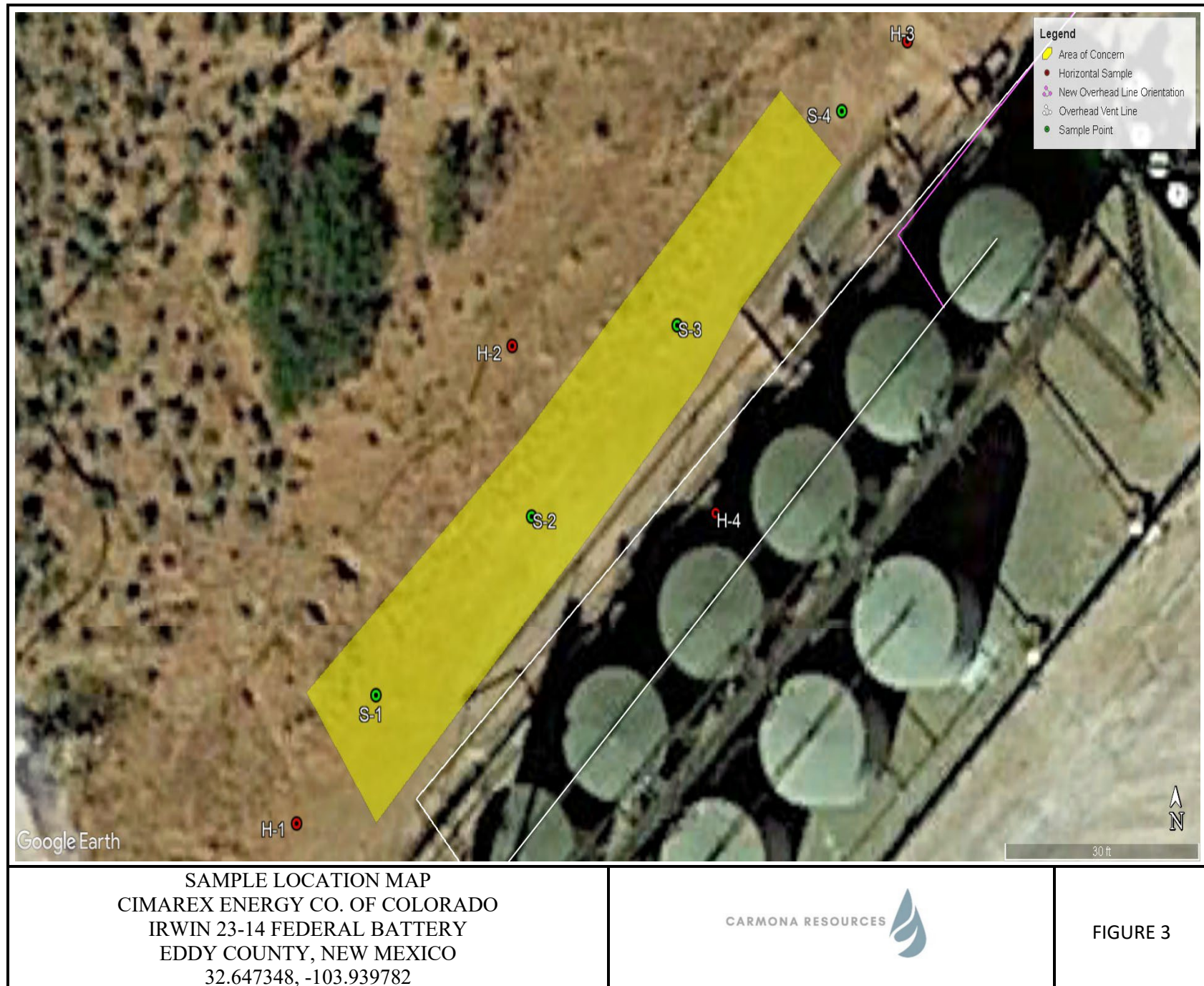


TOPOGRAPHIC MAP  
 CIMAREX ENERGY CO. OF COLORADO  
 IRWIN 23-14 FEDERAL BATTERY  
 EDDY COUNTY, NEW MEXICO  
 32.647348, -103.939782

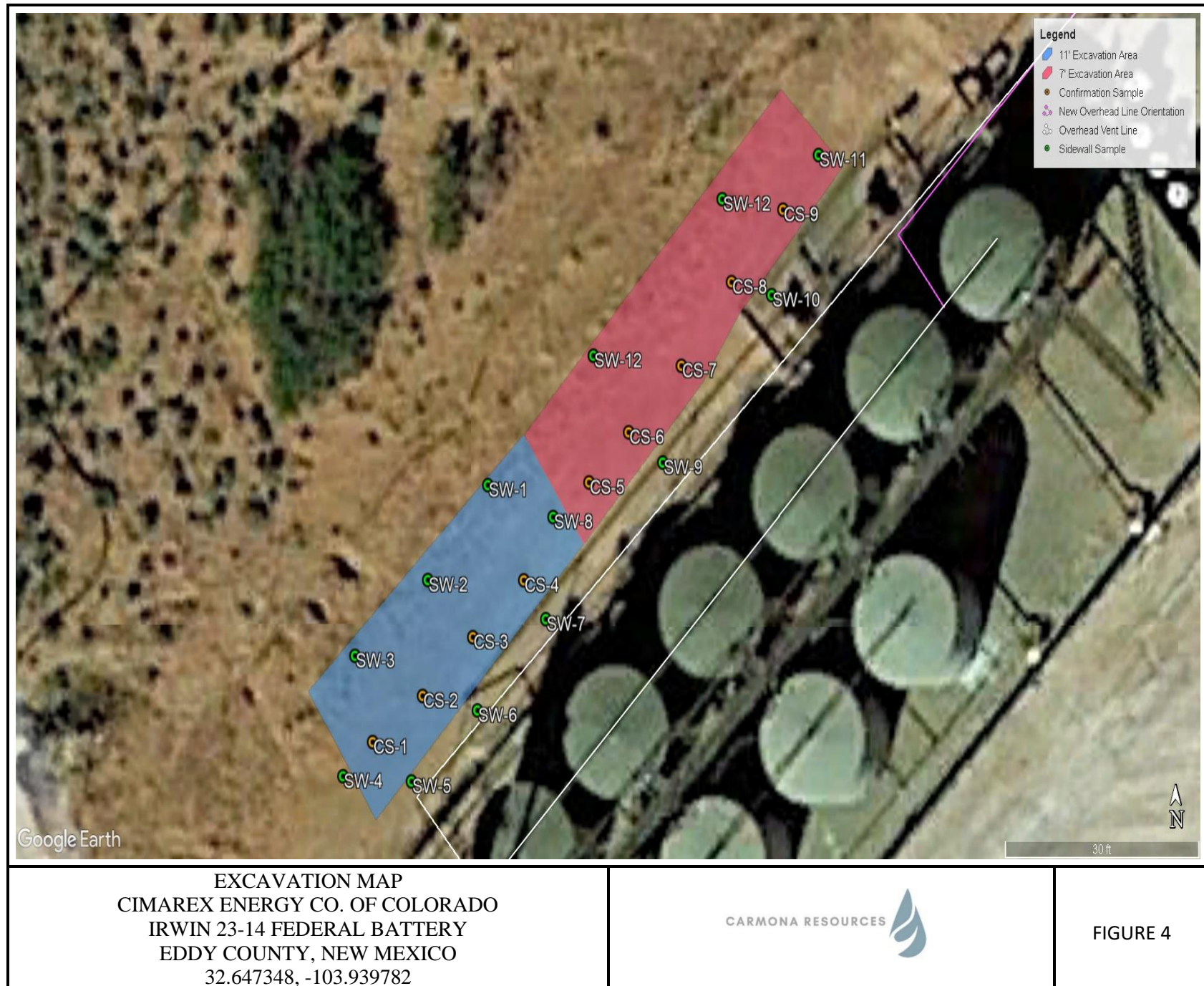


FIGURE 2









## APPENDIX A

CARMONA RESOURCES



**Table 1**  
**Cimarex**  
**Irwin 23-14 Federal Battery**  
**Eddy County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)	
			GRO	DRO	MRO	Total							
S-1	11/29/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	476	
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	466	
	"	2.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,200	
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,480	
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	2,870	
	"	5.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,740	
S-2	11/29/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	26.6	
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	170	
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	336	
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	520	
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,410	
	"	5.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,910	
S-3	11/29/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,610	
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	2,910	
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,230	
	"	3.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,510	
	"	4.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,270	
	"	5.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,150	
S-4	11/29/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.99	
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	24.5	
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<4.98	
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<4.95	
H-1	11/29/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	15.6	
H-2	11/29/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	14.2	
H-3	11/29/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	13.3	
H-4	11/29/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	11.9	
Regulatory Criteria <sup>A</sup>							100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

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

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft - feet

(S) - Sample Point

(H) - Horizontal Sample

 Removed



**Table 2**  
**Cimarex**  
**Irwin 23-14 Federal Battery**  
**Eddy County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-2	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
CS-3	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544
CS-4	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-5	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400
CS-6	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
CS-7	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
CS-8	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
CS-9	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-1	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
SW-2	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368
SW-3	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
SW-4	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-5	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400
SW-6	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	432
SW-7	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	512
SW-8	1/27/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-9	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-10	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
SW-11	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-12	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
SW-13	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Regulatory Criteria <sup>A</sup>						100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg
(-) 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

## Cimarex

## Photograph No. 1

Facility: Irwin 23-14 Federal Battery

County: Eddy County, New Mexico

## Description:

View Southwest, area of CS-1 through CS-9.



## Photograph No. 2

Facility: Irwin 23-14 Federal Battery

County: Eddy County, New Mexico

## Description:

View North, area of CS-1 through CS-9.



## Photograph No. 3

Facility: Irwin 23-14 Federal Battery

County: Eddy County, New Mexico

## Description:

View East, area of CS-5 through CS-9.



## PHOTOGRAPHIC LOG

Cimarex

### Photograph No. 4

**Facility:** Irwin 23-14 Federal Battery

**County:** Eddy County, New Mexico

**Description:**

View South, area of CS-1 through CS-7.



## 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	NRM2017854640
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Cimarex Energy Co. of Colorado	OGRID 162683
Contact Name Laci Luig	Contact Telephone (432) 571-7800
Contact email lluig@cimarex.com	Incident # (assigned by OCD)
Contact mailing address 600 N. Marienfeld Street, Ste. 600 Midland, TX 79701	

### Location of Release Source

Latitude 32.647348 Longitude -103.939782  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Irwin 23-14 Federal Battery	Site Type Battery
Date Release Discovered 6/20/2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
G	23	19S	30E	Eddy

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

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 112 bbls	Volume Recovered (bbls) 30 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

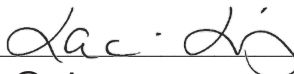
Cause of Release The seal on a transfer pump went out leading to 112 bbls produced water being spilled. The containment overfilled causing the remainder to spill out onto the well pad. A vacuum truck recovered 30 bbls. We will clean containment and delineate the impacted soil to determine pathway forward.

Incident ID	NRM2017854640
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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? <b>The amount of release is more than 25 barrels.</b>
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? From: Tell Montoya To: Jim Griswold, EMNRD OCD District 1 Spills, BLM NM CFO Spill By: Email	

## 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: <b>Laci Luig</b>	Title: <b>Engineer Tech.</b>
Signature: 	Date: <b>6/22/2020</b>
email: <b>lluig@cimarex.com</b>	Telephone: <b>(432) 571-7810</b>
<b><u>OCD Only</u></b>	
Received by: <b>Ramona Marcus</b>	Date: <b>6/26/2020</b>

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:  Date: \_\_\_\_\_

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

**OCD Only**

Received by: Jocelyn Harimon Date: 02/02/2023

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: *Jac. Lj* Date: \_\_\_\_\_

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

**OCD Only**

Received by: Jocelyn Harimon Date: 02/02/2023

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: \_\_\_\_\_ Date: \_\_\_\_\_

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

**Ashton Thielke**

---

**From:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Sent:** Monday, January 9, 2023 9:14 AM  
**To:** Ashton Thielke  
**Cc:** Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD  
**Subject:** RE: [EXTERNAL] nRM2017854640 - Irwin 23-14 Federal Battery (6.20.2020) - Sample Notification

**WARNING:** This email originated from outside of Coterra Energy. Do not click links or open attachments unless you recognize the sender, are expecting the content and know it is safe.

Ashton,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented 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)



---

**From:** Ashton Thielke <Ashton.Thielke@coterra.com>  
**Sent:** Monday, January 9, 2023 7:27 AM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Cc:** Laci Luig <Laci.Luig@coterra.com>  
**Subject:** [EXTERNAL] nRM2017854640 - Irwin 23-14 Federal Battery (6.20.2020) - Sample Notification

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

This email serves as notification for confirmation sampling on the above mentioned site.  
Sampling is scheduled to begin as early as January 12, 2022, weather and soil conditions permitting.  
Incident ID: nRM2017854640  
Coordinates: 32.647348, -103.939872

Thank you,



**Ashton Thielke** | PBU - Environmental Consultant

T: 432.813.5347 | M: 281.753.5659 | [ashton.thielke@coterra.com](mailto:ashton.thielke@coterra.com) | [www.coterra.com](http://www.coterra.com)

Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

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## APPENDIX D

CARMONA RESOURCES



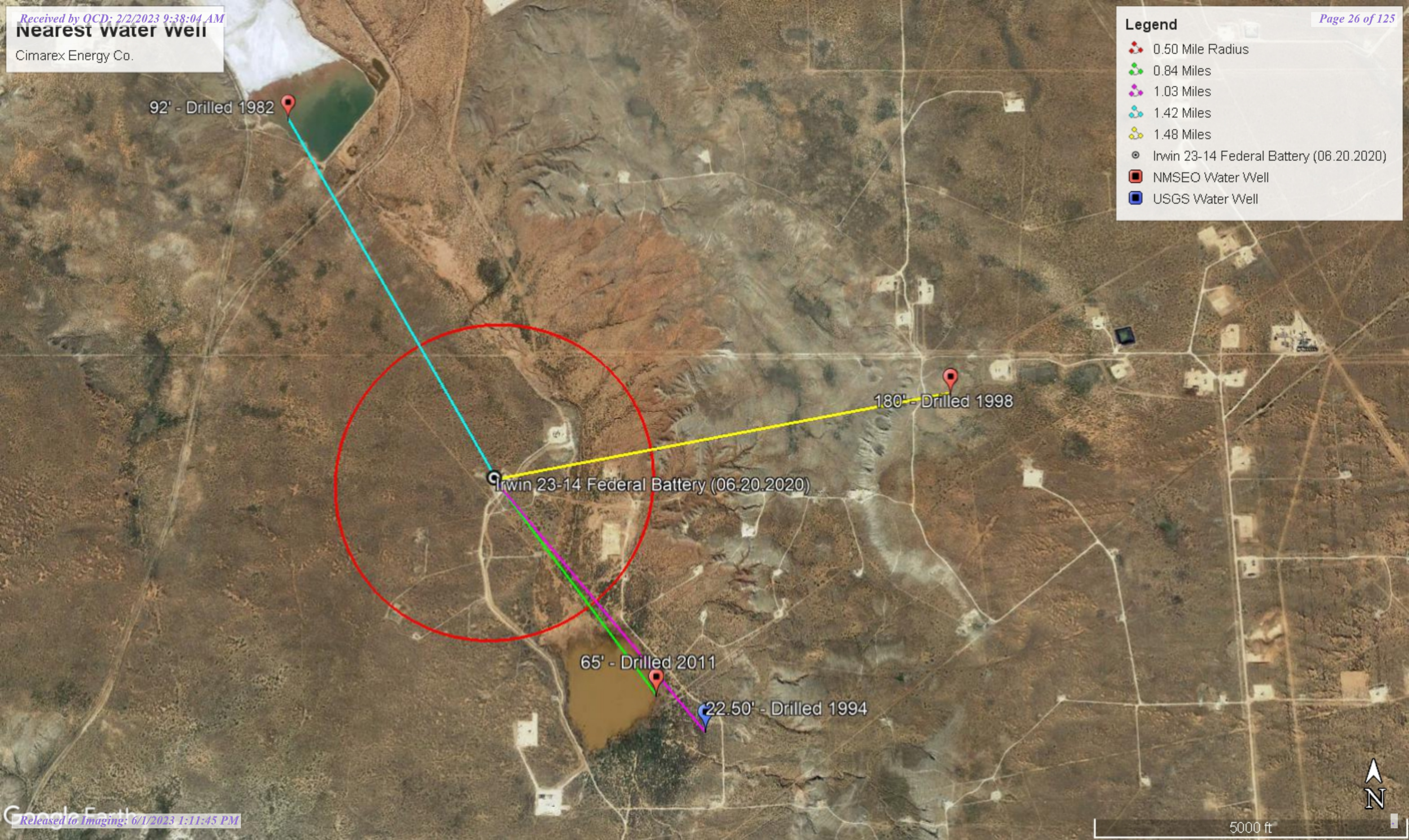


**Nearest water well**

Cimarex Energy Co.

**Legend**

- 0.50 Mile Radius
- 0.84 Miles
- 1.03 Miles
- 1.42 Miles
- 1.48 Miles
- Irwin 23-14 Federal Battery (06.20.2020)
- NMSEO Water Well
- USGS Water Well





# High Karst

Cimarex Energy Co.

## Legend

- High
- Irwin 23-14 Federal Battery (06.20.2020)
- Low
- Medium

Irwin 23-14 Federal Battery (06.20.2020)





# 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 00357 POD2</a>	CP	ED		4	3	1	24	19S	30E	600265	3612627*	831	630		
<a href="#">CP 00357 POD1</a>	CP	ED		4	4	1	24	19S	30E	600667	3612631*	1232	630		
<a href="#">CP 00722 POD2</a>	CP	ED		2	1	1	25	19S	30E	600276	3611620*	1360	350	65	285
<a href="#">CP 00822 POD1</a>	CP	LE			4	4	15	19S	30E	598148	3613516*	1530	90		
<a href="#">CP 00647 POD1</a>	O	CP	ED	4	2	2	15	19S	30E	598235	3614621*	2274	200	92	108
<a href="#">CP 00873 POD1</a>	CP	LE			1	1	19	19S	31E	601772	3613147*	2380	340	180	160
<a href="#">CP 00828 POD1</a>	CP	LE			1	1	35	19S	30E	598585	3609900*	2916	90		

Average Depth to Water: **112 feet**

Minimum Depth: **65 feet**

Maximum Depth: **180 feet**

Record Count: 7

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 599435.66

**Northing (Y):** 3612689.35

**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.

11/9/22 8:36 AM

Page 1 of 1


WATER COLUMN/ AVERAGE  
DEPTH TO WATER





# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00722 POD2	2	1	1	25	19S	30E	600276	3611620* 
Driller License:	1058	Driller Company:				KEY'S DRILLING & PUMP SERVICE			
Driller Name:	KEY, CASEY								
Drill Start Date:	04/26/2011	Drill Finish Date:				05/02/2011		Plug Date:	
Log File Date:	05/17/2011	PCW Rev Date:						Source:	Shallow
Pump Type:		Pipe Discharge Size:						Estimated Yield:	100 GPM
Casing Size:	6.00	Depth Well:				350 feet		Depth Water:	65 feet
Water Bearing Stratifications:					Top	Bottom	Description		
					60	68	Sandstone/Gravel/Conglomerate		
					295	345	Sandstone/Gravel/Conglomerate		

\*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.

11/9/22 8:37 AM

POINT OF DIVERSION SUMMARY

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	
				Groundwater	New Mexico	GO	

Click to hideNews Bulletins

- Effective October 24, 2022 hyperlinks to legacy Current Condition pages will automatically redirect users to the corresponding Monitoring Location page. Please see the [Water Data For The Nation Blog](#) for full details, including how to navigate back to the legacy Current Condition page, if desired.
- Explore the NEW [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 323810103554201

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 323810103554201 19S.30E.25.12133

Eddy County, New Mexico  
Latitude 32°38'10", Longitude 103°55'42" NAD27  
Land-surface elevation 3,248 feet above NAVD88  
The depth of the well is 42 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1968-04-03		D	62610		3227.09	NGVD29	1		Z	
1968-04-03		D	62611		3228.60	NAVD88	1		Z	
1968-04-03		D	72019	19.40			1		Z	
1971-02-01		D	62610		3226.96	NGVD29	1		Z	
1971-02-01		D	62611		3228.47	NAVD88	1		Z	
1971-02-01		D	72019	19.53			1		Z	
1976-12-10		D	62610		3225.44	NGVD29	1		Z	
1976-12-10		D	62611		3226.95	NAVD88	1		Z	
1976-12-10		D	72019	21.05			1		Z	
1977-11-18		D	62610		3223.76	NGVD29	1		Z	
1977-11-18		D	62611		3225.27	NAVD88	1		Z	
1977-11-18		D	72019	22.73			1		Z	

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum
1977-12-05	D	62610	3223.84	NGVD29	1	Z
1977-12-05	D	62611	3225.35	NAVD88	1	Z
1977-12-05	D	72019	22.65		1	Z
1977-12-16	D	62610	3223.51	NGVD29	1	Z
1977-12-16	D	62611	3225.02	NAVD88	1	Z
1977-12-16	D	72019	22.98		1	Z
1977-12-20	D	62610	3223.80	NGVD29	1	Z
1977-12-20	D	62611	3225.31	NAVD88	1	Z
1977-12-20	D	72019	22.69		1	Z
1978-01-18	D	62610	3223.12	NGVD29	1	Z
1978-01-18	D	62611	3224.63	NAVD88	1	Z
1978-01-18	D	72019	23.37		1	Z
1978-02-03	D	62610	3223.92	NGVD29	1	Z
1978-02-03	D	62611	3225.43	NAVD88	1	Z
1978-02-03	D	72019	22.57		1	Z
1978-02-23	D	62610	3223.99	NGVD29	1	Z
1978-02-23	D	62611	3225.50	NAVD88	1	Z
1978-02-23	D	72019	22.50		1	Z
1978-03-30	D	62610	3224.02	NGVD29	1	Z
1978-03-30	D	62611	3225.53	NAVD88	1	Z
1978-03-30	D	72019	22.47		1	Z
1978-05-04	D	62610	3223.84	NGVD29	1	Z
1978-05-04	D	62611	3225.35	NAVD88	1	Z
1978-05-04	D	72019	22.65		1	Z
1978-05-22	D	62610	3223.53	NGVD29	1	Z
1978-05-22	D	62611	3225.04	NAVD88	1	Z
1978-05-22	D	72019	22.96		1	Z
1978-06-08	D	62610	3223.60	NGVD29	1	Z
1978-06-08	D	62611	3225.11	NAVD88	1	Z
1978-06-08	D	72019	22.89		1	Z
1978-07-17	D	62610	3224.47	NGVD29	1	Z
1978-07-17	D	62611	3225.98	NAVD88	1	Z
1978-07-17	D	72019	22.02		1	Z
1978-08-17	D	62610	3223.46	NGVD29	1	Z
1978-08-17	D	62611	3224.97	NAVD88	1	Z
1978-08-17	D	72019	23.03		1	Z
1978-09-27	D	62610	3223.49	NGVD29	1	Z
1978-09-27	D	62611	3225.00	NAVD88	1	Z
1978-09-27	D	72019	23.00		1	Z
1978-12-14	D	62610	3224.82	NGVD29	1	Z
1978-12-14	D	62611	3226.33	NAVD88	1	Z
1978-12-14	D	72019	21.67		1	Z
1979-01-17	D	62610	3224.86	NGVD29	1	Z
1979-01-17	D	62611	3226.37	NAVD88	1	Z
1979-01-17	D	72019	21.63		1	Z
1979-02-14	D	62610	3224.93	NGVD29	1	Z
1979-02-14	D	62611	3226.44	NAVD88	1	Z
1979-02-14	D	72019	21.56		1	Z
1979-03-14	D	62610	3224.90	NGVD29	1	Z
1979-03-14	D	62611	3226.41	NAVD88	1	Z

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum
1979-03-14	D	72019	21.59		1	Z
1983-01-18	D	62610	3233.72	NGVD29	1	Z
1983-01-18	D	62611	3235.23	NAVD88	1	Z
1983-01-18	D	72019	12.77		1	Z
1994-03-18	D	62610	3223.99	NGVD29	1	S
1994-03-18	D	62611	3225.50	NAVD88	1	S
1994-03-18	D	72019	22.50		1	S

## Explanation

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

[Questions about sites/data?](#)[Feedback on this web site](#)[Automated retrievals](#)[Help](#)[Data Tips](#)[Explanation of terms](#)[Subscribe for system changes](#)[News](#)[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)**Title: Groundwater for New Mexico: Water Levels****URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=323810103554201&agency_cd=USGS&format=html)**Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2022-11-09 10:40:35 EST

0.28 0.25 nadww02



# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
	CP 00647 POD1	4	2	2	15	19S	30E	598235	3614621*

---

**Driller License:** 406 **Driller Company:** TIDWELL, CLYDE J.  
**Driller Name:** CLYDE J. TIDWELL

**Drill Start Date:** 02/08/1982 **Drill Finish Date:** 02/18/1982 **Plug Date:**  
**Log File Date:** 02/22/1982 **PCW Rev Date:** **Source:** Shallow  
**Pump Type:** **Pipe Discharge Size:** **Estimated Yield:**  
**Casing Size:** **Depth Well:** 200 feet **Depth Water:** 92 feet

---

Water Bearing Stratifications:	Top	Bottom	Description
	115	140	Other/Unknown

---

Casing Perforations:	Top	Bottom
	115	140

---

\*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.

11/9/22 8:38 AM

POINT OF DIVERSION SUMMARY



# 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)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4 Sec Tws Rng</b>	<b>X</b>	<b>Y</b>
CP 00873	POD1	1 1 19 19S 31E	601772	3613147*

x

**Driller License:** 421      **Driller Company:** GLENN'S WATER WELL SERVICE

**Driller Name:** GLENN, CLARK A."CORKY"

<b>Drill Start Date:</b> 01/02/1998	<b>Drill Finish Date:</b> 01/05/1998	<b>Plug Date:</b>
<b>Log File Date:</b> 01/15/1998	<b>PCW Rev Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 50 GPM
<b>Casing Size:</b> 6.62	<b>Depth Well:</b> 340 feet	<b>Depth Water:</b> 180 feet

x

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	240	320	Shallow Alluvium/Basin Fill

x

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	226	340

x

<b>Meter Number:</b> 805	<b>Meter Make:</b> MASTER
<b>Meter Serial Number:</b> 1748543	<b>Meter Multiplier:</b> 100.0000
<b>Number of Dials:</b> 6	<b>Meter Type:</b> Diversion
<b>Unit of Measure:</b> Gallons	<b>Return Flow Percent:</b>
<b>Usage Multiplier:</b>	<b>Reading Frequency:</b> Monthly

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/01/1999	1999	37400	A	fm		0
01/15/1999	1999	43541	A	fm		1.885
04/27/2000	2000	14849	R	jw	Meter Rollover	298.083
07/31/2000	2000	24399	A	jw		2.931

<b>**YTD Meter Amounts:</b>	<b>Year</b>	<b>Amount</b>
	1999	1.885
	2000	301.014

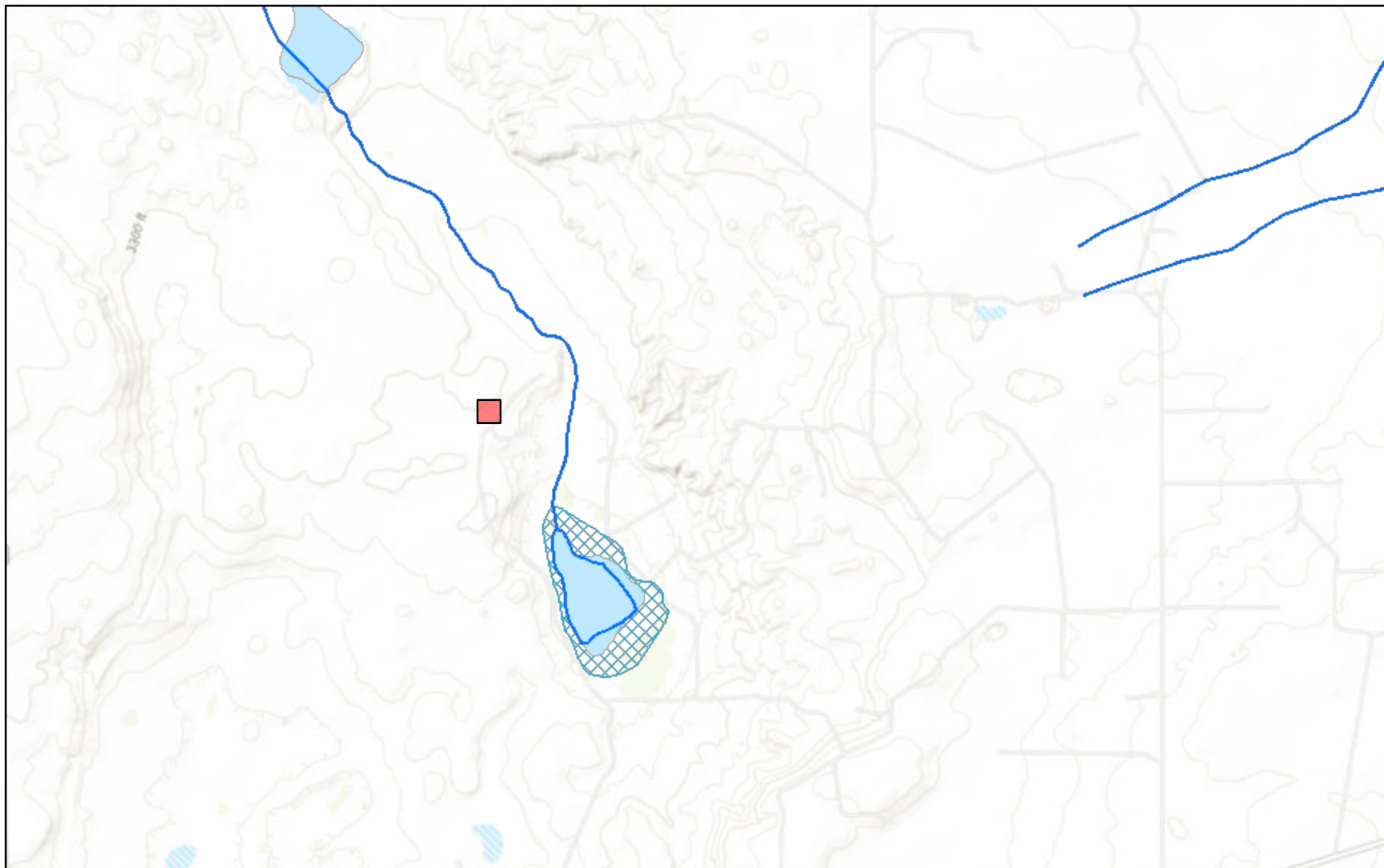
\*UTM location was derived from PLSS - see Help

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.

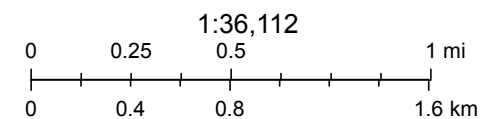
11/9/22 8:39 AM

POINT OF DIVERSION SUMMARY

# New Mexico NFHL Data



November 9, 2022



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

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

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

## APPENDIX E

CARMONA RESOURCES







Environment Testing

1

2

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4

5

6

7

8

9

10

11

12

13

14

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ashton Thielke  
Carmona Resources  
310 W Wall St  
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## JOB DESCRIPTION

Irwin 23-14 Federal Battery  
SDG NUMBER Eddy Co, NM

## JOB NUMBER

880-22037-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701

See page two for job notes and contact information.

# Eurofins Midland

## Job Notes

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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Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Laboratory Job ID: 880-22037-1  
SDG: Eddy Co, NM

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## Definitions/Glossary

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

## Qualifiers

## GC VOA

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

## GC Semi VOA

Qualifier	Qualifier Description
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: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

**Job ID: 880-22037-1**

**Laboratory: Eurofins Midland**

**Narrative**

**Job Narrative  
880-22037-1**

**Receipt**

The samples were received on 11/30/2022 9:09 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 1.6°C

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-1') (880-22037-1), H-2 (0-1') (880-22037-2), H-3 (0-1') (880-22037-3), H-4 (0-1') (880-22037-4), S-1 (0-1') (880-22037-5), S-1 (1.5') (880-22037-6), S-1 (2') (880-22037-7), S-1 (3') (880-22037-8), S-1 (4') (880-22037-9), S-1 (5') (880-22037-10), S-2 (0-1') (880-22037-11), S-2 (1.5') (880-22037-12), S-2 (2') (880-22037-13), S-2 (3') (880-22037-14), S-2 (4') (880-22037-15), S-2 (5') (880-22037-16), S-3 (0-1') (880-22037-17), S-3 (1.5') (880-22037-18), S-3 (2') (880-22037-19), S-3 (3') (880-22037-20), S-3 (4') (880-22037-21), S-3 (5') (880-22037-22), S-4 (0-1') (880-22037-23), S-4 (1.5') (880-22037-24), S-4 (2') (880-22037-25) and S-4 (3') (880-22037-26).

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-40812 and analytical batch 880-41352 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.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-41354 and analytical batch 880-41352 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-22036-A-1-D MS) and (880-22036-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-40812 and analytical batch 880-41352 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-22036-A-1-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-1 (5') (880-22037-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-2 (0-1') (880-22037-11) and S-2 (1.5') (880-22037-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-2 (5') (880-22037-16). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-4 (1.5') (880-22037-24). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-40824 and analytical batch 880-41419 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

**GC Semi VOA**

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (880-22110-A-1-D) and (880-22110-A-1-E)

## Case Narrative

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

**Job ID: 880-22037-1 (Continued)****Laboratory: Eurofins Midland (Continued)**

MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: S-3 (4') (880-22037-21) and S-3 (5') (880-22037-22). 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-4 (1.5') (880-22037-24). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: S-4 (2') (880-22037-25) and S-4 (3') (880-22037-26). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: H-1 (0-1') (880-22037-1), H-2 (0-1') (880-22037-2), H-3 (0-1') (880-22037-3), H-4 (0-1') (880-22037-4), S-1 (0-1') (880-22037-5), S-1 (1.5') (880-22037-6), S-1 (2') (880-22037-7), S-1 (3') (880-22037-8), S-1 (4') (880-22037-9), S-1 (5') (880-22037-10), S-2 (0-1') (880-22037-11), S-2 (1.5') (880-22037-12), S-2 (2') (880-22037-13), S-2 (3') (880-22037-14), S-2 (4') (880-22037-15), S-2 (5') (880-22037-16), S-3 (0-1') (880-22037-17), S-3 (1.5') (880-22037-18), S-3 (2') (880-22037-19), S-3 (3') (880-22037-20), (LCS 880-41158/2-A), (LCSD 880-41158/3-A) and (MB 880-41158/1-A). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike (MS) recoveries for preparation batch 880-40727 and analytical batch 880-40840 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: S-3 (4') (880-22037-21), S-3 (5') (880-22037-22) and S-4 (0-1') (880-22037-23).

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: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22037-1

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/08/22 22:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/08/22 22:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/08/22 22:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/08/22 22:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/08/22 22:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/08/22 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/01/22 15:15	12/08/22 22:42	1
1,4-Difluorobenzene (Surr)	81		70 - 130	12/01/22 15:15	12/08/22 22:42	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			12/09/22 13:21	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			12/07/22 10:55	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		12/06/22 11:28	12/06/22 21:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/06/22 21:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/06/22 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	12/06/22 11:28	12/06/22 21:24	1
o-Terphenyl	156	S1+	70 - 130	12/06/22 11:28	12/06/22 21:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.6		4.99		mg/Kg			12/02/22 17:19	1

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

Lab Sample ID: 880-22037-2

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/08/22 23:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/08/22 23:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/08/22 23:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/08/22 23:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/08/22 23:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/08/22 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/01/22 15:15	12/08/22 23:03	1
1,4-Difluorobenzene (Surr)	89		70 - 130	12/01/22 15:15	12/08/22 23:03	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22037-2

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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			12/09/22 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/07/22 10:55	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		12/06/22 11:28	12/06/22 22:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/22 11:28	12/06/22 22:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/22 11:28	12/06/22 22:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				12/06/22 11:28	12/06/22 22:28	1
o-Terphenyl	152	S1+	70 - 130				12/06/22 11:28	12/06/22 22:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.2		4.95		mg/Kg			12/02/22 17:43	1

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

Lab Sample ID: 880-22037-3

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/08/22 23:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/08/22 23:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/08/22 23:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/01/22 15:15	12/08/22 23:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/08/22 23:23	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/01/22 15:15	12/08/22 23:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				12/01/22 15:15	12/08/22 23:23	1
1,4-Difluorobenzene (Surr)	99		70 - 130				12/01/22 15:15	12/08/22 23:23	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			12/09/22 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/07/22 10:55	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		12/06/22 11:28	12/06/22 22:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/22 11:28	12/06/22 22:50	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

## Client Sample ID: H-3 (0-1')

## Lab Sample ID: 880-22037-3

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/06/22 11:28	12/06/22 22:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				12/06/22 11:28	12/06/22 22:50	1
o-Terphenyl	144	S1+	70 - 130				12/06/22 11:28	12/06/22 22:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.3		4.97		mg/Kg			12/02/22 17:52	1

## Client Sample ID: H-4 (0-1')

## Lab Sample ID: 880-22037-4

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/08/22 23:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/08/22 23:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/08/22 23:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/08/22 23:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/08/22 23:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/08/22 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				12/01/22 15:15	12/08/22 23:44	1
1,4-Difluorobenzene (Surr)	95		70 - 130				12/01/22 15:15	12/08/22 23:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/09/22 13:21	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			12/07/22 10:55	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		12/06/22 11:28	12/06/22 23:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/06/22 23:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/06/22 23:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				12/06/22 11:28	12/06/22 23:12	1
o-Terphenyl	172	S1+	70 - 130				12/06/22 11:28	12/06/22 23:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.9		5.05		mg/Kg			12/02/22 18:00	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22037-5

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/09/22 00:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 00:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 00:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 00:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 00:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 00:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	12/01/22 15:15	12/09/22 00:04	1
1,4-Difluorobenzene (Surr)	70		70 - 130	12/01/22 15:15	12/09/22 00:04	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			12/09/22 13:21	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			12/07/22 10:55	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		12/06/22 11:28	12/06/22 23:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/06/22 23:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/06/22 23:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	12/06/22 11:28	12/06/22 23:33	1
o-Terphenyl	157	S1+	70 - 130	12/06/22 11:28	12/06/22 23:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	476		4.98		mg/Kg			12/02/22 18:08	1

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-22037-6

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/09/22 00:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 00:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 00:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 00:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 00:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 00:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	12/01/22 15:15	12/09/22 00:25	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/01/22 15:15	12/09/22 00:25	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-22037-6

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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			12/09/22 13:21	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			12/07/22 10:55	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		12/06/22 11:28	12/06/22 23:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/06/22 23:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/06/22 23:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				12/06/22 11:28	12/06/22 23:55	1
o-Terphenyl	158	S1+	70 - 130				12/06/22 11:28	12/06/22 23:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	466		5.00		mg/Kg			12/02/22 18:32	1

Client Sample ID: S-1 (2')

Lab Sample ID: 880-22037-7

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/09/22 00:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 00:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 00:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/01/22 15:15	12/09/22 00:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 00:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/01/22 15:15	12/09/22 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				12/01/22 15:15	12/09/22 00:45	1
1,4-Difluorobenzene (Surr)	81		70 - 130				12/01/22 15:15	12/09/22 00:45	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			12/09/22 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/07/22 10:55	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		12/06/22 11:28	12/07/22 00:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/06/22 11:28	12/07/22 00:17	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

Client Sample ID: S-1 (2')

Lab Sample ID: 880-22037-7

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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)	<49.8	U	49.8		mg/Kg		12/06/22 11:28	12/07/22 00:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				12/06/22 11:28	12/07/22 00:17	1
o-Terphenyl	155	S1+	70 - 130				12/06/22 11:28	12/07/22 00:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		25.0		mg/Kg			12/02/22 18:40	5

Client Sample ID: S-1 (3')

Lab Sample ID: 880-22037-8

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/09/22 01:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 01:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 01:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/09/22 01:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 01:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/09/22 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				12/01/22 15:15	12/09/22 01:06	1
1,4-Difluorobenzene (Surr)	97		70 - 130				12/01/22 15:15	12/09/22 01:06	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			12/09/22 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/07/22 10:55	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		12/06/22 11:28	12/07/22 00:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/22 11:28	12/07/22 00:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/22 11:28	12/07/22 00:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				12/06/22 11:28	12/07/22 00:39	1
o-Terphenyl	148	S1+	70 - 130				12/06/22 11:28	12/07/22 00:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1480		25.0		mg/Kg			12/02/22 18:48	5

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

Client Sample ID: S-1 (4')

Lab Sample ID: 880-22037-9

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/09/22 01:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 01:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 01:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/01/22 15:15	12/09/22 01:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 01:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/01/22 15:15	12/09/22 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/01/22 15:15	12/09/22 01:27	1
1,4-Difluorobenzene (Surr)	90		70 - 130	12/01/22 15:15	12/09/22 01:27	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			12/09/22 13:21	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			12/07/22 10:55	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		12/06/22 11:28	12/07/22 01:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 01:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	12/06/22 11:28	12/07/22 01:00	1
o-Terphenyl	151	S1+	70 - 130	12/06/22 11:28	12/07/22 01:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2870		24.8		mg/Kg			12/02/22 18:56	5

Client Sample ID: S-1 (5')

Lab Sample ID: 880-22037-10

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/09/22 01:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 01:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 01:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 01:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 01:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	12/01/22 15:15	12/09/22 01:47	1
1,4-Difluorobenzene (Surr)	72		70 - 130	12/01/22 15:15	12/09/22 01:47	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

Client Sample ID: S-1 (5')

Lab Sample ID: 880-22037-10

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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			12/09/22 13:21	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			12/07/22 10:55	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		12/06/22 11:28	12/07/22 01:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 01:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 01:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				12/06/22 11:28	12/07/22 01:22	1
o-Terphenyl	159	S1+	70 - 130				12/06/22 11:28	12/07/22 01:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3740		24.8		mg/Kg			12/02/22 19:05	5

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

Lab Sample ID: 880-22037-11

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/09/22 03:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 03:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 03:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 03:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 03:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 03:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				12/01/22 15:15	12/09/22 03:09	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130				12/01/22 15:15	12/09/22 03:09	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			12/09/22 13:21	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			12/07/22 10:55	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		12/06/22 11:28	12/07/22 02:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 02:06	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

## Lab Sample ID: 880-22037-11

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/06/22 11:28	12/07/22 02:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				12/06/22 11:28	12/07/22 02:06	1
o-Terphenyl	143	S1+	70 - 130				12/06/22 11:28	12/07/22 02:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.6		5.00		mg/Kg			12/02/22 19:13	1

## Client Sample ID: S-2 (1.5')

## Lab Sample ID: 880-22037-12

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/09/22 03:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 03:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 03:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/09/22 03:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 03:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/09/22 03:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	42	S1-	70 - 130				12/01/22 15:15	12/09/22 03:30	1
1,4-Difluorobenzene (Surr)	84		70 - 130				12/01/22 15:15	12/09/22 03:30	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			12/09/22 13:21	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			12/07/22 10:55	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		12/06/22 11:28	12/07/22 02:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 02:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 02:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				12/06/22 11:28	12/07/22 02:28	1
o-Terphenyl	152	S1+	70 - 130				12/06/22 11:28	12/07/22 02:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		4.97		mg/Kg			12/02/22 19:37	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

Client Sample ID: S-2 (2')

Lab Sample ID: 880-22037-13

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/09/22 03:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/01/22 15:15	12/09/22 03:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/01/22 15:15	12/09/22 03:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/01/22 15:15	12/09/22 03:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/01/22 15:15	12/09/22 03:51	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/01/22 15:15	12/09/22 03:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	12/01/22 15:15	12/09/22 03:51	1
1,4-Difluorobenzene (Surr)	85		70 - 130	12/01/22 15:15	12/09/22 03:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/09/22 13:21	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			12/07/22 10:55	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		12/06/22 11:28	12/07/22 02:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 02:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	12/06/22 11:28	12/07/22 02:49	1
o-Terphenyl	137	S1+	70 - 130	12/06/22 11:28	12/07/22 02:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	336		4.99		mg/Kg			12/02/22 19:45	1

Client Sample ID: S-2 (3')

Lab Sample ID: 880-22037-14

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/09/22 04:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 04:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 04:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 04:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 04:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 04:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	12/01/22 15:15	12/09/22 04:11	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/01/22 15:15	12/09/22 04:11	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

Client Sample ID: S-2 (3')

Lab Sample ID: 880-22037-14

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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			12/09/22 13:21	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			12/07/22 10:55	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		12/06/22 11:28	12/07/22 03:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 03:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 03:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				12/06/22 11:28	12/07/22 03:11	1
o-Terphenyl	139	S1+	70 - 130				12/06/22 11:28	12/07/22 03:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	520		5.04		mg/Kg			12/02/22 20:10	1

Client Sample ID: S-2 (4')

Lab Sample ID: 880-22037-15

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/09/22 04:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 04:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 04:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 04:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 04:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 04:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				12/01/22 15:15	12/09/22 04:32	1
1,4-Difluorobenzene (Surr)	97		70 - 130				12/01/22 15:15	12/09/22 04:32	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			12/09/22 13:21	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			12/07/22 10:55	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		12/06/22 11:28	12/07/22 03:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 03:33	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

Client Sample ID: S-2 (4')

Lab Sample ID: 880-22037-15

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/06/22 11:28	12/07/22 03:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130				12/06/22 11:28	12/07/22 03:33	1
o-Terphenyl	160	S1+	70 - 130				12/06/22 11:28	12/07/22 03:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2410		24.8		mg/Kg			12/02/22 20:18	5

Client Sample ID: S-2 (5')

Lab Sample ID: 880-22037-16

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/09/22 04:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 04:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 04:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/01/22 15:15	12/09/22 04:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 04:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/01/22 15:15	12/09/22 04:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	43	S1-	70 - 130				12/01/22 15:15	12/09/22 04:52	1
1,4-Difluorobenzene (Surr)	86		70 - 130				12/01/22 15:15	12/09/22 04:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/09/22 13:21	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			12/07/22 10:55	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		12/06/22 11:28	12/07/22 03:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 03:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 03:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				12/06/22 11:28	12/07/22 03:54	1
o-Terphenyl	165	S1+	70 - 130				12/06/22 11:28	12/07/22 03:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3910		24.8		mg/Kg			12/02/22 20:26	5

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22037-17

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/09/22 05:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 05:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 05:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/09/22 05:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 05:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/09/22 05:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	12/01/22 15:15	12/09/22 05:13	1
1,4-Difluorobenzene (Surr)	83		70 - 130	12/01/22 15:15	12/09/22 05:13	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			12/09/22 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/07/22 10:55	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		12/06/22 11:28	12/07/22 04:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/22 11:28	12/07/22 04:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/22 11:28	12/07/22 04:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	12/06/22 11:28	12/07/22 04:16	1
o-Terphenyl	153	S1+	70 - 130	12/06/22 11:28	12/07/22 04:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1610		25.0		mg/Kg			12/02/22 20:34	5

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-22037-18

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/09/22 05:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/01/22 15:15	12/09/22 05:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/01/22 15:15	12/09/22 05:33	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/01/22 15:15	12/09/22 05:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/01/22 15:15	12/09/22 05:33	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/01/22 15:15	12/09/22 05:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	12/01/22 15:15	12/09/22 05:33	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/01/22 15:15	12/09/22 05:33	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-22037-18

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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			12/09/22 13:21	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			12/07/22 10:55	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		12/06/22 11:28	12/07/22 04:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 04:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 04:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				12/06/22 11:28	12/07/22 04:38	1
o-Terphenyl	165	S1+	70 - 130				12/06/22 11:28	12/07/22 04:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2910		24.9		mg/Kg			12/02/22 20:42	5

Client Sample ID: S-3 (2')

Lab Sample ID: 880-22037-19

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/09/22 05:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 05:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 05:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 05:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 05:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 05:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				12/01/22 15:15	12/09/22 05:54	1
1,4-Difluorobenzene (Surr)	98		70 - 130				12/01/22 15:15	12/09/22 05:54	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			12/09/22 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/07/22 10:55	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		12/06/22 11:28	12/07/22 04:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/22 11:28	12/07/22 04:59	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

## Client Sample ID: S-3 (2')

## Lab Sample ID: 880-22037-19

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/06/22 11:28	12/07/22 04:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				12/06/22 11:28	12/07/22 04:59	1
o-Terphenyl	142	S1+	70 - 130				12/06/22 11:28	12/07/22 04:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3230		25.2		mg/Kg			12/02/22 20:50	5

## Client Sample ID: S-3 (3')

## Lab Sample ID: 880-22037-20

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:15	12/09/22 06:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 06:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 06:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/01/22 15:15	12/09/22 06:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 06:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/01/22 15:15	12/09/22 06:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				12/01/22 15:15	12/09/22 06:14	1
1,4-Difluorobenzene (Surr)	100		70 - 130				12/01/22 15:15	12/09/22 06:14	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			12/09/22 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/07/22 10:55	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		12/06/22 11:28	12/07/22 05:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/06/22 11:28	12/07/22 05:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/06/22 11:28	12/07/22 05:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				12/06/22 11:28	12/07/22 05:21	1
o-Terphenyl	158	S1+	70 - 130				12/06/22 11:28	12/07/22 05:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2510		25.1		mg/Kg			12/02/22 20:59	5

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

Client Sample ID: S-3 (4')

Lab Sample ID: 880-22037-21

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 14:19	12/09/22 10:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 10:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 10:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 10:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 10:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 10:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	12/01/22 14:19	12/09/22 10:53	1
1,4-Difluorobenzene (Surr)	110		70 - 130	12/01/22 14:19	12/09/22 10:53	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			12/09/22 12:20	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			12/07/22 09:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/05/22 11:32	12/06/22 14:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/05/22 11:32	12/06/22 14:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/05/22 11:32	12/06/22 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130	12/05/22 11:32	12/06/22 14:26	1
o-Terphenyl	136	S1+	70 - 130	12/05/22 11:32	12/06/22 14:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4270		25.0		mg/Kg			12/01/22 23:00	5

Client Sample ID: S-3 (5')

Lab Sample ID: 880-22037-22

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 14:19	12/09/22 11:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 11:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 11:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 11:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 11:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 11:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	12/01/22 14:19	12/09/22 11:13	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/01/22 14:19	12/09/22 11:13	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

Client Sample ID: S-3 (5')

Lab Sample ID: 880-22037-22

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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			12/09/22 12:20	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			12/07/22 09:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/05/22 11:32	12/06/22 14:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/05/22 11:32	12/06/22 14:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/22 11:32	12/06/22 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130				12/05/22 11:32	12/06/22 14:48	1
o-Terphenyl	142	S1+	70 - 130				12/05/22 11:32	12/06/22 14:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2150		24.9		mg/Kg			12/01/22 23:07	5

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

Lab Sample ID: 880-22037-23

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/02/22 13:30	12/09/22 19:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/02/22 13:30	12/09/22 19:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/02/22 13:30	12/09/22 19:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/02/22 13:30	12/09/22 19:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/02/22 13:30	12/09/22 19:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/02/22 13:30	12/09/22 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				12/02/22 13:30	12/09/22 19:25	1
1,4-Difluorobenzene (Surr)	83		70 - 130				12/02/22 13:30	12/09/22 19:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/12/22 15:15	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			12/07/22 09:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/22 11:32	12/06/22 15:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/22 11:32	12/06/22 15:10	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22037-23

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/05/22 11:32	12/06/22 15:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				12/05/22 11:32	12/06/22 15:10	1
o-Terphenyl	128		70 - 130				12/05/22 11:32	12/06/22 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.3		5.04		mg/Kg			12/01/22 23:13	1

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-22037-24

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/02/22 13:30	12/09/22 19:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/02/22 13:30	12/09/22 19:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/02/22 13:30	12/09/22 19:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/02/22 13:30	12/09/22 19:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/02/22 13:30	12/09/22 19:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/02/22 13:30	12/09/22 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				12/02/22 13:30	12/09/22 19:46	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/02/22 13:30	12/09/22 19:46	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			12/12/22 15:15	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			12/07/22 09:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/05/22 11:32	12/06/22 15:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/05/22 11:32	12/06/22 15:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/22 11:32	12/06/22 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				12/05/22 11:32	12/06/22 15:33	1
o-Terphenyl	135	S1+	70 - 130				12/05/22 11:32	12/06/22 15:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.5		4.97		mg/Kg			12/01/22 23:20	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

Client Sample ID: S-4 (2')

Lab Sample ID: 880-22037-25

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:55	12/09/22 18:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/01/22 15:55	12/09/22 18:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/01/22 15:55	12/09/22 18:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/01/22 15:55	12/09/22 18:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/01/22 15:55	12/09/22 18:44	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/01/22 15:55	12/09/22 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	12/01/22 15:55	12/09/22 18:44	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/01/22 15:55	12/09/22 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			12/12/22 15:15	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			12/07/22 09:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/22 11:32	12/06/22 16:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/22 11:32	12/06/22 16:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/22 11:32	12/06/22 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130	12/05/22 11:32	12/06/22 16:17	1
o-Terphenyl	134	S1+	70 - 130	12/05/22 11:32	12/06/22 16:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.1		4.96		mg/Kg			12/01/22 23:40	1

Client Sample ID: S-4 (3')

Lab Sample ID: 880-22037-26

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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		12/01/22 15:55	12/09/22 19:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 19:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 19:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 19:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 19:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	12/01/22 15:55	12/09/22 19:05	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/01/22 15:55	12/09/22 19:05	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

Client Sample ID: S-4 (3')

Lab Sample ID: 880-22037-26

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

## 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			12/12/22 15:15	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			12/07/22 09:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/22 11:32	12/06/22 16:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/22 11:32	12/06/22 16:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/22 11:32	12/06/22 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				12/05/22 11:32	12/06/22 16:39	1
o-Terphenyl	135	S1+	70 - 130				12/05/22 11:32	12/06/22 16:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.3		5.05		mg/Kg			12/01/22 23:46	1



## Surrogate Summary

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-22036-A-1-D MS	Matrix Spike	66 S1-	98
880-22036-A-1-E MSD	Matrix Spike Duplicate	65 S1-	95
880-22037-1	H-1 (0-1')	116	81
880-22037-1 MS	H-1 (0-1')	109	95
880-22037-1 MSD	H-1 (0-1')	111	92
880-22037-2	H-2 (0-1')	117	89
880-22037-3	H-3 (0-1')	121	99
880-22037-4	H-4 (0-1')	120	95
880-22037-5	S-1 (0-1')	96	70
880-22037-6	S-1 (1.5')	126	97
880-22037-7	S-1 (2')	117	81
880-22037-8	S-1 (3')	127	97
880-22037-9	S-1 (4')	118	90
880-22037-10	S-1 (5')	67 S1-	72
880-22037-11	S-2 (0-1')	103	69 S1-
880-22037-12	S-2 (1.5')	42 S1-	84
880-22037-13	S-2 (2')	124	85
880-22037-14	S-2 (3')	126	97
880-22037-15	S-2 (4')	123	97
880-22037-16	S-2 (5')	43 S1-	86
880-22037-17	S-3 (0-1')	126	83
880-22037-18	S-3 (1.5')	126	96
880-22037-19	S-3 (2')	121	98
880-22037-20	S-3 (3')	124	100
880-22037-21	S-3 (4')	90	110
880-22037-22	S-3 (5')	77	105
880-22037-23	S-4 (0-1')	125	83
880-22037-24	S-4 (1.5')	133 S1+	102
880-22037-25	S-4 (2')	128	93
880-22037-26	S-4 (3')	125	93
880-22119-A-6-A MS	Matrix Spike	95	96
880-22119-A-6-B MSD	Matrix Spike Duplicate	111	82
LCS 880-40812/1-A	Lab Control Sample	77	109
LCS 880-40819/1-A	Lab Control Sample	113	97
LCS 880-40824/1-A	Lab Control Sample	97	93
LCSD 880-40812/2-A	Lab Control Sample Dup	76	102
LCSD 880-40819/2-A	Lab Control Sample Dup	115	95
LCSD 880-40824/2-A	Lab Control Sample Dup	105	93
MB 880-40812/5-A	Method Blank	66 S1-	102
MB 880-40819/5-A	Method Blank	101	94
MB 880-40824/5-A	Method Blank	102	88
MB 880-41251/5-A	Method Blank	102	91
MB 880-41354/5-A	Method Blank	69 S1-	102

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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## Surrogate Summary

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

**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)
880-22037-1	H-1 (0-1')	132 S1+	156 S1+
880-22037-1 MS	H-1 (0-1')	115	116
880-22037-1 MSD	H-1 (0-1')	105	109
880-22037-2	H-2 (0-1')	130	152 S1+
880-22037-3	H-3 (0-1')	121	144 S1+
880-22037-4	H-4 (0-1')	143 S1+	172 S1+
880-22037-5	S-1 (0-1')	129	157 S1+
880-22037-6	S-1 (1.5')	132 S1+	158 S1+
880-22037-7	S-1 (2')	128	155 S1+
880-22037-8	S-1 (3')	125	148 S1+
880-22037-9	S-1 (4')	128	151 S1+
880-22037-10	S-1 (5')	132 S1+	159 S1+
880-22037-11	S-2 (0-1')	119	143 S1+
880-22037-12	S-2 (1.5')	127	152 S1+
880-22037-13	S-2 (2')	116	137 S1+
880-22037-14	S-2 (3')	119	139 S1+
880-22037-15	S-2 (4')	141 S1+	160 S1+
880-22037-16	S-2 (5')	143 S1+	165 S1+
880-22037-17	S-3 (0-1')	128	153 S1+
880-22037-18	S-3 (1.5')	136 S1+	165 S1+
880-22037-19	S-3 (2')	120	142 S1+
880-22037-20	S-3 (3')	133 S1+	158 S1+
880-22037-21	S-3 (4')	145 S1+	136 S1+
880-22037-22	S-3 (5')	151 S1+	142 S1+
880-22037-23	S-4 (0-1')	127	128
880-22037-24	S-4 (1.5')	138 S1+	135 S1+
880-22037-25	S-4 (2')	138 S1+	134 S1+
880-22037-26	S-4 (3')	145 S1+	135 S1+
880-22110-A-1-E MS	Matrix Spike	142 S1+	112
880-22110-A-1-F MSD	Matrix Spike Duplicate	120	99
LCS 880-41024/2-A	Lab Control Sample	129	120
LCS 880-41158/2-A	Lab Control Sample	161 S1+	197 S1+
LCSD 880-41024/3-A	Lab Control Sample Dup	129	117
LCSD 880-41158/3-A	Lab Control Sample Dup	154 S1+	180 S1+
MB 880-41024/1-A	Method Blank	130	127
MB 880-41158/1-A	Method Blank	110	139 S1+
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-40812/5-A

Matrix: Solid

Analysis Batch: 41352

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 02:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 02:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 02:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/01/22 14:19	12/09/22 02:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 02:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/01/22 14:19	12/09/22 02:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	12/01/22 14:19	12/09/22 02:25	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/01/22 14:19	12/09/22 02:25	1

Lab Sample ID: LCS 880-40812/1-A

Matrix: Solid

Analysis Batch: 41352

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09060		mg/Kg		91	70 - 130
Toluene	0.100	0.08987		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08402		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1513		mg/Kg		76	70 - 130
o-Xylene	0.100	0.07504		mg/Kg		75	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	77		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-40812/2-A

Matrix: Solid

Analysis Batch: 41352

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40812

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08083		mg/Kg		81	70 - 130	11	35
Toluene	0.100	0.08944		mg/Kg		89	70 - 130	0	35
Ethylbenzene	0.100	0.08507		mg/Kg		85	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1525		mg/Kg		76	70 - 130	1	35
o-Xylene	0.100	0.07477		mg/Kg		75	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	76		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-22036-A-1-D MS

Matrix: Solid

Analysis Batch: 41352

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 40812

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1	0.100	0.05819	F1	mg/Kg		58	70 - 130
Toluene	<0.00201	U F1	0.100	0.05709	F1	mg/Kg		57	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22036-A-1-D MS

Matrix: Solid

Analysis Batch: 41352

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 40812

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1	0.100	0.05730	F1	mg/Kg		57	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.201	0.1040	F1	mg/Kg		51	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.05678	F1	mg/Kg		56	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-22036-A-1-E MSD

Matrix: Solid

Analysis Batch: 41352

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 40812

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0994	0.05039	F1	mg/Kg		51	70 - 130	14	35
Toluene	<0.00201	U F1	0.0994	0.05380	F1	mg/Kg		54	70 - 130	6	35
Ethylbenzene	<0.00201	U F1	0.0994	0.05628	F1	mg/Kg		57	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.09921	F1	mg/Kg		49	70 - 130	5	35
o-Xylene	<0.00201	U F1	0.0994	0.05389	F1	mg/Kg		54	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-40819/5-A

Matrix: Solid

Analysis Batch: 41323

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40819

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/08/22 22:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/08/22 22:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/08/22 22:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/01/22 15:15	12/08/22 22:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/08/22 22:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/01/22 15:15	12/08/22 22:20	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	12/01/22 15:15	12/08/22 22:20	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/01/22 15:15	12/08/22 22:20	1

Lab Sample ID: LCS 880-40819/1-A

Matrix: Solid

Analysis Batch: 41323

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40819

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1095		mg/Kg		109	70 - 130
Toluene	0.100	0.1044		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1063		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2400		mg/Kg		120	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-40819/1-A

Matrix: Solid

Analysis Batch: 41323

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40819

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1207		mg/Kg		121	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-40819/2-A

Matrix: Solid

Analysis Batch: 41323

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40819

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1119		mg/Kg		112	70 - 130	2	35
Toluene	0.100	0.1103		mg/Kg		110	70 - 130	5	35
Ethylbenzene	0.100	0.1093		mg/Kg		109	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2413		mg/Kg		121	70 - 130	1	35
o-Xylene	0.100	0.1235		mg/Kg		124	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-22037-1 MS

Matrix: Solid

Analysis Batch: 41323

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

Prep Type: Total/NA

Prep Batch: 40819

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.08296		mg/Kg		83	70 - 130
Toluene	<0.00201	U	0.0998	0.07940		mg/Kg		78	70 - 130
Ethylbenzene	<0.00201	U	0.0998	0.08079		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1766		mg/Kg		88	70 - 130
o-Xylene	<0.00201	U	0.0998	0.09067		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-22037-1 MSD

Matrix: Solid

Analysis Batch: 41323

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

Prep Type: Total/NA

Prep Batch: 40819

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00201	U	0.0990	0.08744		mg/Kg		88	70 - 130	5	35
Toluene	<0.00201	U	0.0990	0.08159		mg/Kg		81	70 - 130	3	35
Ethylbenzene	<0.00201	U	0.0990	0.08981		mg/Kg		90	70 - 130	11	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1954		mg/Kg		99	70 - 130	10	35
o-Xylene	<0.00201	U	0.0990	0.1019		mg/Kg		103	70 - 130	12	35

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22037-1 MSD

Matrix: Solid

Analysis Batch: 41323

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

Prep Type: Total/NA

Prep Batch: 40819

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 880-40824/5-A

Matrix: Solid

Analysis Batch: 41419

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40824

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 11:49	1	
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 11:49	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 11:49	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/01/22 15:55	12/09/22 11:49	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 11:49	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/01/22 15:55	12/09/22 11:49	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				12/01/22 15:55	12/09/22 11:49	1	
1,4-Difluorobenzene (Surr)	88		70 - 130				12/01/22 15:55	12/09/22 11:49	1	

Lab Sample ID: LCS 880-40824/1-A

Matrix: Solid

Analysis Batch: 41419

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40824

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.1081		mg/Kg		108	70 - 130			
Toluene	0.100	0.1037		mg/Kg		104	70 - 130			
Ethylbenzene	0.100	0.09481		mg/Kg		95	70 - 130			
m-Xylene & p-Xylene	0.200	0.2010		mg/Kg		101	70 - 130			
o-Xylene	0.100	0.1037		mg/Kg		104	70 - 130			

	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	97		70 - 130							
1,4-Difluorobenzene (Surr)	93		70 - 130							

Lab Sample ID: LCSD 880-40824/2-A

Matrix: Solid

Analysis Batch: 41419

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40824

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.1088		mg/Kg		109	70 - 130	1	35
Toluene			0.100	0.1020		mg/Kg		102	70 - 130	2	35
Ethylbenzene			0.100	0.1000		mg/Kg		100	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2153		mg/Kg		108	70 - 130	7	35
o-Xylene			0.100	0.1047		mg/Kg		105	70 - 130	1	35
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	105		70 - 130								

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-40824/2-A

Matrix: Solid

Analysis Batch: 41419

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40824

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-22119-A-6-A MS

Matrix: Solid

Analysis Batch: 41419

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 40824

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1	0.0996	0.07632		mg/Kg		75	70 - 130	
Toluene	<0.00201	U F1	0.0996	0.07199		mg/Kg		72	70 - 130	
Ethylbenzene	<0.00201	U	0.0996	0.07077		mg/Kg		70	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1552		mg/Kg		78	70 - 130	
o-Xylene	<0.00201	U	0.0996	0.08169		mg/Kg		82	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-22119-A-6-B MSD

Matrix: Solid

Analysis Batch: 41419

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 40824

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00201	U F1	0.0990	0.05892	F1	mg/Kg		58	70 - 130	26	35	
Toluene	<0.00201	U F1	0.0990	0.05582	F1	mg/Kg		56	70 - 130	25	35	
Ethylbenzene	<0.00201	U	0.0990	0.07497		mg/Kg		75	70 - 130	6	35	
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1563		mg/Kg		79	70 - 130	1	35	
o-Xylene	<0.00201	U	0.0990	0.08015		mg/Kg		81	70 - 130	2	35	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Lab Sample ID: MB 880-41251/5-A

Matrix: Solid

Analysis Batch: 41323

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41251

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		12/07/22 10:18	12/08/22 11:44	1	
Toluene	<0.00200	U	0.00200		mg/Kg		12/07/22 10:18	12/08/22 11:44	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/07/22 10:18	12/08/22 11:44	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/07/22 10:18	12/08/22 11:44	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/07/22 10:18	12/08/22 11:44	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/07/22 10:18	12/08/22 11:44	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
4-Bromofluorobenzene (Surr)	102		70 - 130	12/07/22 10:18	12/08/22 11:44	1				
1,4-Difluorobenzene (Surr)	91		70 - 130	12/07/22 10:18	12/08/22 11:44	1				

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-41354/5-A

Matrix: Solid

Analysis Batch: 41352

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/08/22 10:50	12/08/22 14:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/08/22 10:50	12/08/22 14:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/08/22 10:50	12/08/22 14:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/08/22 10:50	12/08/22 14:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/08/22 10:50	12/08/22 14:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/08/22 10:50	12/08/22 14:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	12/08/22 10:50	12/08/22 14:50	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/08/22 10:50	12/08/22 14:50	1

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

Lab Sample ID: MB 880-41024/1-A

Matrix: Solid

Analysis Batch: 41104

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41024

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		12/05/22 11:32	12/06/22 08:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/22 11:32	12/06/22 08:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/22 11:32	12/06/22 08:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	12/05/22 11:32	12/06/22 08:55	1
o-Terphenyl	127		70 - 130	12/05/22 11:32	12/06/22 08:55	1

Lab Sample ID: LCS 880-41024/2-A

Matrix: Solid

Analysis Batch: 41104

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	840.2		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	897.2		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: LCSD 880-41024/3-A

Matrix: Solid

Analysis Batch: 41104

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41024

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	836.2		mg/Kg		84	70 - 130	0	20

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-41024/3-A

Matrix: Solid

Analysis Batch: 41104

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41024

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	886.7		mg/Kg		89	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	129		70 - 130						
o-Terphenyl	117		70 - 130						

Lab Sample ID: 880-22110-A-1-E MS

Matrix: Solid

Analysis Batch: 41104

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 41024

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	999	1052		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1095		mg/Kg		108	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	142	S1+	70 - 130								
o-Terphenyl	112		70 - 130								

Lab Sample ID: 880-22110-A-1-F MSD

Matrix: Solid

Analysis Batch: 41104

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 41024

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	997	924.9		mg/Kg		90	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	961.7		mg/Kg		95	70 - 130	13	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	120		70 - 130								
o-Terphenyl	99		70 - 130								

Lab Sample ID: MB 880-41158/1-A

Matrix: Solid

Analysis Batch: 41106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41158

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		12/06/22 11:28	12/06/22 20:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/06/22 20:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/06/22 20:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	110		70 - 130						
o-Terphenyl	139	S1+	70 - 130						

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-41158/2-A

Matrix: Solid

Analysis Batch: 41106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41158

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	804.4		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	998.1		mg/Kg		100	70 - 130		

Lab Sample ID: LCSD 880-41158/3-A

Matrix: Solid

Analysis Batch: 41106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41158

Top Data: 17.00												
Analyte				Spike	LCSD	LCSD	%Rec			RPD		
				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10				1000	816.9		mg/Kg		82	70 - 130	2	20
Diesel Range Organics (Over C10-C28)				1000	931.1		mg/Kg		93	70 - 130	7	20
Bottom Data: 17.00												
Surrogate	LCSD		Limits									
	%Recovery	Qualifier										
1-Chlorooctane	154	S1+	70 - 130									
o-Terphenyl	180	S1+	70 - 130									

Lab Sample ID: 880-22037-1 MS

Matrix: Solid

Analysis Batch: 41106

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

Prep Type: Total/NA

Prep Batch: 41158

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1134		mg/Kg		111	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1024		mg/Kg		98	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	115		70 - 130								
o-Terphenyl	116		70 - 130								

Lab Sample ID: 880-22037-1 MSD

Matrix: Solid

Analysis Batch: 41106

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

Prep Type: Total/NA

Prep Batch: 41158

	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	997	934.8		mg/Kg		91	70 - 130		19	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	944.1		mg/Kg		90	70 - 130		8	20
	</											

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22037-1 MSD

Matrix: Solid

Analysis Batch: 41106

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

Prep Type: Total/NA

Prep Batch: 41158

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	109		70 - 130

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40727/1-A

Matrix: Solid

Analysis Batch: 40840

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			12/01/22 21:27	1	

Lab Sample ID: LCS 880-40727/2-A

Matrix: Solid

Analysis Batch: 40840

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	261.2		mg/Kg		104	90 - 110	

Lab Sample ID: LCSD 880-40727/3-A

Matrix: Solid

Analysis Batch: 40840

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	274.8		mg/Kg		110	90 - 110	5	20

Lab Sample ID: 880-22037-24 MS

Matrix: Solid

Analysis Batch: 40840

Client Sample ID: S-4 (1.5')

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	56.5		249	312.8		mg/Kg		103	90 - 110	

Lab Sample ID: 880-22037-24 MSD

Matrix: Solid

Analysis Batch: 40840

Client Sample ID: S-4 (1.5')

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	56.5		249	306.6		mg/Kg		101	90 - 110	2	20

Lab Sample ID: MB 880-40690/1-A

Matrix: Solid

Analysis Batch: 40920

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			12/02/22 16:55	1	

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-40690/2-A

Matrix: Solid

Analysis Batch: 40920

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	255.0		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-40690/3-A

Matrix: Solid

Analysis Batch: 40920

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	257.2		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-22037-1 MS

Matrix: Solid

Analysis Batch: 40920

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.6		250	262.7		mg/Kg		99	90 - 110

Lab Sample ID: 880-22037-1 MSD

Matrix: Solid

Analysis Batch: 40920

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	15.6		250	262.9		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-22037-11 MS

Matrix: Solid

Analysis Batch: 40920

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	26.6		250	273.9		mg/Kg		99	90 - 110

Lab Sample ID: 880-22037-11 MSD

Matrix: Solid

Analysis Batch: 40920

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	26.6		250	276.9		mg/Kg		100	90 - 110	1	20

Lab Sample ID: MB 880-40834/1-A

Matrix: Solid

Analysis Batch: 40952

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			12/04/22 11:43	1

Lab Sample ID: LCS 880-40834/2-A

Matrix: Solid

Analysis Batch: 40952

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.9		mg/Kg		101	90 - 110

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QC Sample Results

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-40834/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 40952											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	251.8		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-22037-2 MS				Client Sample ID: H-2 (0-1')							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 40952											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	21.3		252	280.7		mg/Kg		103	90 - 110		

Lab Sample ID: 880-22037-2 MSD				Client Sample ID: H-2 (0-1')							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 40952											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	21.3		252	281.1		mg/Kg		103	90 - 110	0	20

## QC Association Summary

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

## GC VOA

## Prep Batch: 40812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-21	S-3 (4')	Total/NA	Solid	5035	
880-22037-22	S-3 (5')	Total/NA	Solid	5035	
MB 880-40812/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40812/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40812/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22036-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-22036-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Prep Batch: 40819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-1	H-1 (0-1')	Total/NA	Solid	5035	
880-22037-2	H-2 (0-1')	Total/NA	Solid	5035	
880-22037-3	H-3 (0-1')	Total/NA	Solid	5035	
880-22037-4	H-4 (0-1')	Total/NA	Solid	5035	
880-22037-5	S-1 (0-1')	Total/NA	Solid	5035	
880-22037-6	S-1 (1.5')	Total/NA	Solid	5035	
880-22037-7	S-1 (2')	Total/NA	Solid	5035	
880-22037-8	S-1 (3')	Total/NA	Solid	5035	
880-22037-9	S-1 (4')	Total/NA	Solid	5035	
880-22037-10	S-1 (5')	Total/NA	Solid	5035	
880-22037-11	S-2 (0-1')	Total/NA	Solid	5035	
880-22037-12	S-2 (1.5')	Total/NA	Solid	5035	
880-22037-13	S-2 (2')	Total/NA	Solid	5035	
880-22037-14	S-2 (3')	Total/NA	Solid	5035	
880-22037-15	S-2 (4')	Total/NA	Solid	5035	
880-22037-16	S-2 (5')	Total/NA	Solid	5035	
880-22037-17	S-3 (0-1')	Total/NA	Solid	5035	
880-22037-18	S-3 (1.5')	Total/NA	Solid	5035	
880-22037-19	S-3 (2')	Total/NA	Solid	5035	
880-22037-20	S-3 (3')	Total/NA	Solid	5035	
MB 880-40819/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40819/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40819/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22037-1 MS	H-1 (0-1')	Total/NA	Solid	5035	
880-22037-1 MSD	H-1 (0-1')	Total/NA	Solid	5035	

## Prep Batch: 40824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-23	S-4 (0-1')	Total/NA	Solid	5035	
880-22037-24	S-4 (1.5')	Total/NA	Solid	5035	
880-22037-25	S-4 (2')	Total/NA	Solid	5035	
880-22037-26	S-4 (3')	Total/NA	Solid	5035	
MB 880-40824/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40824/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40824/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22119-A-6-A MS	Matrix Spike	Total/NA	Solid	5035	
880-22119-A-6-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Prep Batch: 41251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-41251/5-A	Method Blank	Total/NA	Solid	5035	

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

## GC VOA

## Analysis Batch: 41323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-1	H-1 (0-1')	Total/NA	Solid	8021B	40819
880-22037-2	H-2 (0-1')	Total/NA	Solid	8021B	40819
880-22037-3	H-3 (0-1')	Total/NA	Solid	8021B	40819
880-22037-4	H-4 (0-1')	Total/NA	Solid	8021B	40819
880-22037-5	S-1 (0-1')	Total/NA	Solid	8021B	40819
880-22037-6	S-1 (1.5')	Total/NA	Solid	8021B	40819
880-22037-7	S-1 (2')	Total/NA	Solid	8021B	40819
880-22037-8	S-1 (3')	Total/NA	Solid	8021B	40819
880-22037-9	S-1 (4')	Total/NA	Solid	8021B	40819
880-22037-10	S-1 (5')	Total/NA	Solid	8021B	40819
880-22037-11	S-2 (0-1')	Total/NA	Solid	8021B	40819
880-22037-12	S-2 (1.5')	Total/NA	Solid	8021B	40819
880-22037-13	S-2 (2')	Total/NA	Solid	8021B	40819
880-22037-14	S-2 (3')	Total/NA	Solid	8021B	40819
880-22037-15	S-2 (4')	Total/NA	Solid	8021B	40819
880-22037-16	S-2 (5')	Total/NA	Solid	8021B	40819
880-22037-17	S-3 (0-1')	Total/NA	Solid	8021B	40819
880-22037-18	S-3 (1.5')	Total/NA	Solid	8021B	40819
880-22037-19	S-3 (2')	Total/NA	Solid	8021B	40819
880-22037-20	S-3 (3')	Total/NA	Solid	8021B	40819
MB 880-40819/5-A	Method Blank	Total/NA	Solid	8021B	40819
MB 880-41251/5-A	Method Blank	Total/NA	Solid	8021B	41251
LCS 880-40819/1-A	Lab Control Sample	Total/NA	Solid	8021B	40819
LCSD 880-40819/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40819
880-22037-1 MS	H-1 (0-1')	Total/NA	Solid	8021B	40819
880-22037-1 MSD	H-1 (0-1')	Total/NA	Solid	8021B	40819

## Analysis Batch: 41352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-21	S-3 (4')	Total/NA	Solid	8021B	40812
880-22037-22	S-3 (5')	Total/NA	Solid	8021B	40812
MB 880-40812/5-A	Method Blank	Total/NA	Solid	8021B	40812
MB 880-41354/5-A	Method Blank	Total/NA	Solid	8021B	41354
LCS 880-40812/1-A	Lab Control Sample	Total/NA	Solid	8021B	40812
LCSD 880-40812/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40812
880-22036-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	40812
880-22036-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	40812

## Prep Batch: 41354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-41354/5-A	Method Blank	Total/NA	Solid	5035	

## Analysis Batch: 41419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-23	S-4 (0-1')	Total/NA	Solid	8021B	40824
880-22037-24	S-4 (1.5')	Total/NA	Solid	8021B	40824
880-22037-25	S-4 (2')	Total/NA	Solid	8021B	40824
880-22037-26	S-4 (3')	Total/NA	Solid	8021B	40824
MB 880-40824/5-A	Method Blank	Total/NA	Solid	8021B	40824
LCS 880-40824/1-A	Lab Control Sample	Total/NA	Solid	8021B	40824
LCSD 880-40824/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40824

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

## GC VOA (Continued)

## Analysis Batch: 41419 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-A-6-A MS	Matrix Spike	Total/NA	Solid	8021B	40824
880-22119-A-6-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	40824

## Analysis Batch: 41467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-1	H-1 (0-1')	Total/NA	Solid	Total BTEX	
880-22037-2	H-2 (0-1')	Total/NA	Solid	Total BTEX	
880-22037-3	H-3 (0-1')	Total/NA	Solid	Total BTEX	
880-22037-4	H-4 (0-1')	Total/NA	Solid	Total BTEX	
880-22037-5	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-22037-6	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-22037-7	S-1 (2')	Total/NA	Solid	Total BTEX	
880-22037-8	S-1 (3')	Total/NA	Solid	Total BTEX	
880-22037-9	S-1 (4')	Total/NA	Solid	Total BTEX	
880-22037-10	S-1 (5')	Total/NA	Solid	Total BTEX	
880-22037-11	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-22037-12	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-22037-13	S-2 (2')	Total/NA	Solid	Total BTEX	
880-22037-14	S-2 (3')	Total/NA	Solid	Total BTEX	
880-22037-15	S-2 (4')	Total/NA	Solid	Total BTEX	
880-22037-16	S-2 (5')	Total/NA	Solid	Total BTEX	
880-22037-17	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-22037-18	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-22037-19	S-3 (2')	Total/NA	Solid	Total BTEX	
880-22037-20	S-3 (3')	Total/NA	Solid	Total BTEX	
880-22037-21	S-3 (4')	Total/NA	Solid	Total BTEX	
880-22037-22	S-3 (5')	Total/NA	Solid	Total BTEX	
880-22037-23	S-4 (0-1')	Total/NA	Solid	Total BTEX	
880-22037-24	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-22037-25	S-4 (2')	Total/NA	Solid	Total BTEX	
880-22037-26	S-4 (3')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 41024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-21	S-3 (4')	Total/NA	Solid	8015NM Prep	
880-22037-22	S-3 (5')	Total/NA	Solid	8015NM Prep	
880-22037-23	S-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-22037-24	S-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-22037-25	S-4 (2')	Total/NA	Solid	8015NM Prep	
880-22037-26	S-4 (3')	Total/NA	Solid	8015NM Prep	
MB 880-41024/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41024/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41024/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22110-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-22110-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 41104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-21	S-3 (4')	Total/NA	Solid	8015B NM	41024

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

## GC Semi VOA (Continued)

## Analysis Batch: 41104 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-22	S-3 (5')	Total/NA	Solid	8015B NM	41024
880-22037-23	S-4 (0-1')	Total/NA	Solid	8015B NM	41024
880-22037-24	S-4 (1.5')	Total/NA	Solid	8015B NM	41024
880-22037-25	S-4 (2')	Total/NA	Solid	8015B NM	41024
880-22037-26	S-4 (3')	Total/NA	Solid	8015B NM	41024
MB 880-41024/1-A	Method Blank	Total/NA	Solid	8015B NM	41024
LCS 880-41024/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41024
LCSD 880-41024/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41024
880-22110-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	41024
880-22110-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	41024

## Analysis Batch: 41106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-1	H-1 (0-1')	Total/NA	Solid	8015B NM	41158
880-22037-2	H-2 (0-1')	Total/NA	Solid	8015B NM	41158
880-22037-3	H-3 (0-1')	Total/NA	Solid	8015B NM	41158
880-22037-4	H-4 (0-1')	Total/NA	Solid	8015B NM	41158
880-22037-5	S-1 (0-1')	Total/NA	Solid	8015B NM	41158
880-22037-6	S-1 (1.5')	Total/NA	Solid	8015B NM	41158
880-22037-7	S-1 (2')	Total/NA	Solid	8015B NM	41158
880-22037-8	S-1 (3')	Total/NA	Solid	8015B NM	41158
880-22037-9	S-1 (4')	Total/NA	Solid	8015B NM	41158
880-22037-10	S-1 (5')	Total/NA	Solid	8015B NM	41158
880-22037-11	S-2 (0-1')	Total/NA	Solid	8015B NM	41158
880-22037-12	S-2 (1.5')	Total/NA	Solid	8015B NM	41158
880-22037-13	S-2 (2')	Total/NA	Solid	8015B NM	41158
880-22037-14	S-2 (3')	Total/NA	Solid	8015B NM	41158
880-22037-15	S-2 (4')	Total/NA	Solid	8015B NM	41158
880-22037-16	S-2 (5')	Total/NA	Solid	8015B NM	41158
880-22037-17	S-3 (0-1')	Total/NA	Solid	8015B NM	41158
880-22037-18	S-3 (1.5')	Total/NA	Solid	8015B NM	41158
880-22037-19	S-3 (2')	Total/NA	Solid	8015B NM	41158
880-22037-20	S-3 (3')	Total/NA	Solid	8015B NM	41158
MB 880-41158/1-A	Method Blank	Total/NA	Solid	8015B NM	41158
LCS 880-41158/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41158
LCSD 880-41158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41158
880-22037-1 MS	H-1 (0-1')	Total/NA	Solid	8015B NM	41158
880-22037-1 MSD	H-1 (0-1')	Total/NA	Solid	8015B NM	41158

## Prep Batch: 41158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-1	H-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-22037-2	H-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-22037-3	H-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-22037-4	H-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-22037-5	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-22037-6	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-22037-7	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-22037-8	S-1 (3')	Total/NA	Solid	8015NM Prep	
880-22037-9	S-1 (4')	Total/NA	Solid	8015NM Prep	
880-22037-10	S-1 (5')	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

## GC Semi VOA (Continued)

## Prep Batch: 41158 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-11	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-22037-12	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-22037-13	S-2 (2')	Total/NA	Solid	8015NM Prep	
880-22037-14	S-2 (3')	Total/NA	Solid	8015NM Prep	
880-22037-15	S-2 (4')	Total/NA	Solid	8015NM Prep	
880-22037-16	S-2 (5')	Total/NA	Solid	8015NM Prep	
880-22037-17	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-22037-18	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-22037-19	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-22037-20	S-3 (3')	Total/NA	Solid	8015NM Prep	
MB 880-41158/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41158/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22037-1 MS	H-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-22037-1 MSD	H-1 (0-1')	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 41229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-1	H-1 (0-1')	Total/NA	Solid	8015 NM	
880-22037-2	H-2 (0-1')	Total/NA	Solid	8015 NM	
880-22037-3	H-3 (0-1')	Total/NA	Solid	8015 NM	
880-22037-4	H-4 (0-1')	Total/NA	Solid	8015 NM	
880-22037-5	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-22037-6	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-22037-7	S-1 (2')	Total/NA	Solid	8015 NM	
880-22037-8	S-1 (3')	Total/NA	Solid	8015 NM	
880-22037-9	S-1 (4')	Total/NA	Solid	8015 NM	
880-22037-10	S-1 (5')	Total/NA	Solid	8015 NM	
880-22037-11	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-22037-12	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-22037-13	S-2 (2')	Total/NA	Solid	8015 NM	
880-22037-14	S-2 (3')	Total/NA	Solid	8015 NM	
880-22037-15	S-2 (4')	Total/NA	Solid	8015 NM	
880-22037-16	S-2 (5')	Total/NA	Solid	8015 NM	
880-22037-17	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-22037-18	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-22037-19	S-3 (2')	Total/NA	Solid	8015 NM	
880-22037-20	S-3 (3')	Total/NA	Solid	8015 NM	
880-22037-21	S-3 (4')	Total/NA	Solid	8015 NM	
880-22037-22	S-3 (5')	Total/NA	Solid	8015 NM	
880-22037-23	S-4 (0-1')	Total/NA	Solid	8015 NM	
880-22037-24	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-22037-25	S-4 (2')	Total/NA	Solid	8015 NM	
880-22037-26	S-4 (3')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 40690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-1	H-1 (0-1')	Soluble	Solid	DI Leach	
880-22037-2	H-2 (0-1')	Soluble	Solid	DI Leach	

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

## HPLC/IC (Continued)

## Leach Batch: 40690 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-3	H-3 (0-1')	Soluble	Solid	DI Leach	
880-22037-4	H-4 (0-1')	Soluble	Solid	DI Leach	
880-22037-5	S-1 (0-1')	Soluble	Solid	DI Leach	
880-22037-6	S-1 (1.5')	Soluble	Solid	DI Leach	
880-22037-7	S-1 (2')	Soluble	Solid	DI Leach	
880-22037-8	S-1 (3')	Soluble	Solid	DI Leach	
880-22037-9	S-1 (4')	Soluble	Solid	DI Leach	
880-22037-10	S-1 (5')	Soluble	Solid	DI Leach	
880-22037-11	S-2 (0-1')	Soluble	Solid	DI Leach	
880-22037-12	S-2 (1.5')	Soluble	Solid	DI Leach	
880-22037-13	S-2 (2')	Soluble	Solid	DI Leach	
880-22037-14	S-2 (3')	Soluble	Solid	DI Leach	
880-22037-15	S-2 (4')	Soluble	Solid	DI Leach	
880-22037-16	S-2 (5')	Soluble	Solid	DI Leach	
880-22037-17	S-3 (0-1')	Soluble	Solid	DI Leach	
880-22037-18	S-3 (1.5')	Soluble	Solid	DI Leach	
880-22037-19	S-3 (2')	Soluble	Solid	DI Leach	
880-22037-20	S-3 (3')	Soluble	Solid	DI Leach	
MB 880-40690/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40690/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40690/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22037-1 MS	H-1 (0-1')	Soluble	Solid	DI Leach	
880-22037-1 MSD	H-1 (0-1')	Soluble	Solid	DI Leach	
880-22037-11 MS	S-2 (0-1')	Soluble	Solid	DI Leach	
880-22037-11 MSD	S-2 (0-1')	Soluble	Solid	DI Leach	

## Leach Batch: 40727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-21	S-3 (4')	Soluble	Solid	DI Leach	
880-22037-22	S-3 (5')	Soluble	Solid	DI Leach	
880-22037-23	S-4 (0-1')	Soluble	Solid	DI Leach	
880-22037-24	S-4 (1.5')	Soluble	Solid	DI Leach	
880-22037-25	S-4 (2')	Soluble	Solid	DI Leach	
880-22037-26	S-4 (3')	Soluble	Solid	DI Leach	
MB 880-40727/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40727/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40727/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22037-24 MS	S-4 (1.5')	Soluble	Solid	DI Leach	
880-22037-24 MSD	S-4 (1.5')	Soluble	Solid	DI Leach	

## Leach Batch: 40834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40834/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40834/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40834/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22037-2 MS	H-2 (0-1')	Soluble	Solid	DI Leach	
880-22037-2 MSD	H-2 (0-1')	Soluble	Solid	DI Leach	

## Analysis Batch: 40840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-21	S-3 (4')	Soluble	Solid	300.0	40727

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

## HPLC/IC (Continued)

## Analysis Batch: 40840 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-22	S-3 (5')	Soluble	Solid	300.0	40727
880-22037-23	S-4 (0-1')	Soluble	Solid	300.0	40727
880-22037-24	S-4 (1.5')	Soluble	Solid	300.0	40727
880-22037-25	S-4 (2')	Soluble	Solid	300.0	40727
880-22037-26	S-4 (3')	Soluble	Solid	300.0	40727
MB 880-40727/1-A	Method Blank	Soluble	Solid	300.0	40727
LCS 880-40727/2-A	Lab Control Sample	Soluble	Solid	300.0	40727
LCSD 880-40727/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40727
880-22037-24 MS	S-4 (1.5')	Soluble	Solid	300.0	40727
880-22037-24 MSD	S-4 (1.5')	Soluble	Solid	300.0	40727

## Analysis Batch: 40920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-1	H-1 (0-1')	Soluble	Solid	300.0	40690
880-22037-2	H-2 (0-1')	Soluble	Solid	300.0	40690
880-22037-3	H-3 (0-1')	Soluble	Solid	300.0	40690
880-22037-4	H-4 (0-1')	Soluble	Solid	300.0	40690
880-22037-5	S-1 (0-1')	Soluble	Solid	300.0	40690
880-22037-6	S-1 (1.5')	Soluble	Solid	300.0	40690
880-22037-7	S-1 (2')	Soluble	Solid	300.0	40690
880-22037-8	S-1 (3')	Soluble	Solid	300.0	40690
880-22037-9	S-1 (4')	Soluble	Solid	300.0	40690
880-22037-10	S-1 (5')	Soluble	Solid	300.0	40690
880-22037-11	S-2 (0-1')	Soluble	Solid	300.0	40690
880-22037-12	S-2 (1.5')	Soluble	Solid	300.0	40690
880-22037-13	S-2 (2')	Soluble	Solid	300.0	40690
880-22037-14	S-2 (3')	Soluble	Solid	300.0	40690
880-22037-15	S-2 (4')	Soluble	Solid	300.0	40690
880-22037-16	S-2 (5')	Soluble	Solid	300.0	40690
880-22037-17	S-3 (0-1')	Soluble	Solid	300.0	40690
880-22037-18	S-3 (1.5')	Soluble	Solid	300.0	40690
880-22037-19	S-3 (2')	Soluble	Solid	300.0	40690
880-22037-20	S-3 (3')	Soluble	Solid	300.0	40690
MB 880-40690/1-A	Method Blank	Soluble	Solid	300.0	40690
LCS 880-40690/2-A	Lab Control Sample	Soluble	Solid	300.0	40690
LCSD 880-40690/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40690
880-22037-1 MS	H-1 (0-1')	Soluble	Solid	300.0	40690
880-22037-1 MSD	H-1 (0-1')	Soluble	Solid	300.0	40690
880-22037-11 MS	S-2 (0-1')	Soluble	Solid	300.0	40690
880-22037-11 MSD	S-2 (0-1')	Soluble	Solid	300.0	40690

## Analysis Batch: 40952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40834/1-A	Method Blank	Soluble	Solid	300.0	40834
LCS 880-40834/2-A	Lab Control Sample	Soluble	Solid	300.0	40834
LCSD 880-40834/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40834
880-22037-2 MS	H-2 (0-1')	Soluble	Solid	300.0	40834
880-22037-2 MSD	H-2 (0-1')	Soluble	Solid	300.0	40834

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## Lab Chronicle

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22037-1

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/08/22 22:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 21:24	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40920	12/02/22 17:19	CH	EET MID

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

Lab Sample ID: 880-22037-2

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/08/22 23:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 22:28	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40920	12/02/22 17:43	CH	EET MID

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

Lab Sample ID: 880-22037-3

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/08/22 23:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 22:50	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40920	12/02/22 17:52	CH	EET MID

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

Lab Sample ID: 880-22037-4

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/08/22 23:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

## Client Sample ID: H-4 (0-1')

## Lab Sample ID: 880-22037-4

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 23:12	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40920	12/02/22 18:00	CH	EET MID

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

## Lab Sample ID: 880-22037-5

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 00:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 23:33	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40920	12/02/22 18:08	CH	EET MID

## Client Sample ID: S-1 (1.5')

## Lab Sample ID: 880-22037-6

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 00:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 23:55	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40920	12/02/22 18:32	CH	EET MID

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

## Lab Sample ID: 880-22037-7

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 00:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 00:17	AJ	EET MID

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

## Lab Sample ID: 880-22037-7

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			5.01 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 18:40	CH	EET MID

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

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

## Lab Sample ID: 880-22037-8

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			4.97 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 01:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 00:39	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 18:48	CH	EET MID

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

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

## Lab Sample ID: 880-22037-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 01:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 01:00	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 18:56	CH	EET MID

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

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

## Lab Sample ID: 880-22037-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 01:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 01:22	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 19:05	CH	EET MID

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22037-11

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 03:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 02:06	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40920	12/02/22 19:13	CH	EET MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-22037-12

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 03:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 02:28	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40920	12/02/22 19:37	CH	EET MID

Client Sample ID: S-2 (2')

Lab Sample ID: 880-22037-13

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 03:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 02:49	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40920	12/02/22 19:45	CH	EET MID

Client Sample ID: S-2 (3')

Lab Sample ID: 880-22037-14

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 04:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

## Client Sample ID: S-2 (3')

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

## Lab Sample ID: 880-22037-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 03:11	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40920	12/02/22 20:10	CH	EET MID

## Client Sample ID: S-2 (4')

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

## Lab Sample ID: 880-22037-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 04:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 03:33	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 20:18	CH	EET MID

## Client Sample ID: S-2 (5')

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

## Lab Sample ID: 880-22037-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 04:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 03:54	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 20:26	CH	EET MID

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

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

## Lab Sample ID: 880-22037-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 05:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 04:16	AJ	EET MID

Eurofins Midland



## Lab Chronicle

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

## Lab Sample ID: 880-22037-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 20:34	CH	EET MID

## Client Sample ID: S-3 (1.5')

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

## Lab Sample ID: 880-22037-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 05:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 04:38	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 20:42	CH	EET MID

## Client Sample ID: S-3 (2')

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

## Lab Sample ID: 880-22037-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 05:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 04:59	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 20:50	CH	EET MID

## Client Sample ID: S-3 (3')

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

## Lab Sample ID: 880-22037-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 06:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 05:21	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 20:59	CH	EET MID

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

Client Sample ID: S-3 (4')

Lab Sample ID: 880-22037-21

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 10:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 09:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41024	12/05/22 11:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41104	12/06/22 14:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40727	11/30/22 15:52	SMC	EET MID
Soluble	Analysis	300.0		5			40840	12/01/22 23:00	SMC	EET MID

Client Sample ID: S-3 (5')

Lab Sample ID: 880-22037-22

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 11:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 09:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41024	12/05/22 11:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41104	12/06/22 14:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40727	11/30/22 15:52	SMC	EET MID
Soluble	Analysis	300.0		5			40840	12/01/22 23:07	SMC	EET MID

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

Lab Sample ID: 880-22037-23

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40824	12/02/22 13:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 19:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/12/22 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 09:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41024	12/05/22 11:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41104	12/06/22 15:10	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40727	11/30/22 15:52	SMC	EET MID
Soluble	Analysis	300.0		1			40840	12/01/22 23:13	SMC	EET MID

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-22037-24

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40824	12/02/22 13:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 19:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/12/22 15:15	SM	EET MID

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

## Client Sample ID: S-4 (1.5')

## Lab Sample ID: 880-22037-24

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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			41229	12/07/22 09:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41024	12/05/22 11:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41104	12/06/22 15:33	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40727	11/30/22 15:52	SMC	EET MID
Soluble	Analysis	300.0		1			40840	12/01/22 23:20	SMC	EET MID

## Client Sample ID: S-4 (2')

## Lab Sample ID: 880-22037-25

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 18:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/12/22 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 09:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41024	12/05/22 11:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41104	12/06/22 16:17	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	40727	11/30/22 15:52	SMC	EET MID
Soluble	Analysis	300.0		1			40840	12/01/22 23:40	SMC	EET MID

## Client Sample ID: S-4 (3')

## Lab Sample ID: 880-22037-26

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 19:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/12/22 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 09:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41024	12/05/22 11:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41104	12/06/22 16:39	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40727	11/30/22 15:52	SMC	EET MID
Soluble	Analysis	300.0		1			40840	12/01/22 23:46	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: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

## Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
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: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

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

**Protocol References:**

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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



## Sample Summary

Client: Carmona Resources  
Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1  
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22037-1	H-1 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-2	H-2 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-3	H-3 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-4	H-4 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-5	S-1 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-6	S-1 (1.5')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-7	S-1 (2')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-8	S-1 (3')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-9	S-1 (4')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-10	S-1 (5')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-11	S-2 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-12	S-2 (1.5')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-13	S-2 (2')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-14	S-2 (3')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-15	S-2 (4')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-16	S-2 (5')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-17	S-3 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-18	S-3 (1.5')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-19	S-3 (2')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-20	S-3 (3')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-21	S-3 (4')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-22	S-3 (5')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-23	S-4 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-24	S-4 (1.5')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-25	S-4 (2')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-26	S-4 (3')	Solid	11/29/22 00:00	11/30/22 09:09

Chain of Custody

Work Order No: 22031

Page 1 of 3

Project Manager	Ashton Thielke	Bill to (if different)	Laci Lugo
Company Name	Carmona Resources	Company Name	Cinatrex Energy
Address	310 West Wall Ste 415	Address	600 N Mainfield St, Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland TX 79701
Phone	432-813-5347	Email	laci.lugo@coterra.com & ashton.thielke@coterra.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/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	Irwin 23-14 Federal Battery	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes			
Project Number	1178															None NO	DI Water H <sub>2</sub> O	
Project Location	Eddy Co, NM	Due Date	TAT starts the day received by the lab if received by 4:30pm														Cool Cool	MeOH Me
Sampler's Name	AT																HCL HC	HNO <sub>3</sub> HN
PO #																	H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub>	NaOH Na
SAMPLE RECEIPT	Blank	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Met Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID											H <sub>3</sub> PO <sub>4</sub> HP		
Received Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Correction Factor	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading											NaHSO <sub>4</sub> NABIS		
Cooler Custody Seals	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>															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 type="checkbox"/>															Zn Acetate+NaOH Zn		
Total Containers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Corrected Temperature	1.0												NaOH+Ascorbic Acid SAPC		
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments	
H-1 (0-1')	11/29/2022		X		Grab/	1	X	X	X							HOLD		
H-2 (0-1')	11/29/2022		X		Grab/	1	X	X	X							402		
H-3 (0-1')	11/29/2022		X		Grab/	1	X	X	X									
H-4 (0-1')	11/29/2022		X		Grab/	1	X	X	X									
S-1 (0-1')	11/29/2022		X		Grab/	1	X	X	X									
S-1 (1 5)	11/29/2022		X		Grab/	1	X	X	X									
S-1 (2)	11/29/2022		X		Grab/	1	X	X	X									
S-1 (3)	11/29/2022		X		Grab/	1	X	X	X									
S-1 (4)	11/29/2022		X		Grab/	1	X	X	X									
S-1 (5)	11/29/2022		X		Grab/	1	X	X	X									

Please send results to cmoehring@camonarresources.com and mcarmona@camonarresources.com



880-22037 Chain of Custody

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		11/30/22			
		909			

Chain of Custody

Work Order No: 22037

Page 2 of 3

Project Manager:	Ashton Thielke	Bill to (if different):	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 West Wall Ste 415	Address:	600 N Marrenfield St, Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, TX 79701
Phone	432-813-5347	Email:	laci.luig@coterra.com & ashton.thielke@coterra.com

Work Order Comments	
Program, UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/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:	Irwin 23-14 Federal Battery	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes						
Project Number:	1178															None NO	DI Water, H <sub>2</sub> O				
Project Location:	Eddy Co, NM	Due Date														Cool Cool	MeOH Me				
Sampler's Name:	AT	TAT starts the day received by the lab if received by 4:30pm														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	Correction Factor											Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub>					
Sample Custody Seals:				Yes No	Temperature Reading											Zn Acetate+NaOH Zn					
Total Containers					Corrected Temperature											NaOH+Ascorbic Acid SAPC					
Sample Identification				Date	Time	Soil	Water	Grab/Comp	# of Cont	BTX 8021B										Sample Comments	
S-2 (0-1')				11/29/2022		X		Grab/	1	X	X	X	X	X	X	X	TPH 8015M ( GRO + DRO + MRO)				
S-2 (1 5')				11/29/2022		X		Grab/	1	X	X	X	X	X	X	X	Chloride 300 0				
S-2 (2')				11/29/2022		X		Grab/	1	X	X	X	X	X	X	X					
S-2 (3')				11/29/2022		X		Grab/	1	X	X	X	X	X	X	X					
S-2 (4')				11/29/2022		X		Grab/	1	X	X	X	X	X	X	X					
S-2 (5')				11/29/2022		X		Grab/	1	X	X	X	X	X	X	X					
S-3 (0-1')				11/29/2022		X		Grab/	1	X	X	X	X	X	X	X					
S-3 (1 5')				11/29/2022		X		Grab/	1	X	X	X	X	X	X	X					
S-3 (2')				11/29/2022		X		Grab/	1	X	X	X	X	X	X	X					
S-3 (3')				11/29/2022		X		Grab/	1	X	X	X	X	X	X	X					

Please send results to cmoehting@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1	2	11/30/22	3	4	
5	6	909			

Chain of Custody

Work Order No: 22037

Page 3 of 3

Project Manager	Ashton Thielke	Bill to (if different)	Laci Lugo
Company Name	Carmona Resources	Company Name	Cinmarex Energy
Address	310 West Wall Ste 415	Address	600 N Mainfield St Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland TX 79701
Phone	432-813-5347	Email	laci.lugo@coterra.com & ashton.thielke@coterra.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	State of Project
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/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	Irwin 23-14 Federal Battery	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes																				
Project Number	1178	Due Date	TAT starts the day received by the lab if received by 4:30pm		HOLD																																
Project Location	Eddy Co. NM																																				
Sampler's Name	AT																																				
PO #																																					
SAMPLE RECEIPT	Temp Blank	Yes	No	Thermometer ID	Yes	No	Wet Ice	Yes	No																												
Received Intact	Yes	No																																			
Cooler Custody Seals	Yes	No	N/A	Correction Factor																																	
Sample Custody Seals	Yes	No	N/A	Temperature Reading																																	
Total Containers																																					
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont																															
S-3 (4)	11/29/2022		X	Grab/	1	X	X	X	X																												
S-3 (5)	11/29/2022		X	Grab/	1	X	X	X	X																												
S-4 (0-1)	11/29/2022		X	Grab/	1	X	X	X	X																												
S-4 (1 5)	11/29/2022		X	Grab/	1	X	X	X	X																												
S-4 (2)	11/29/2022		X	Grab/	1	X	X	X	X																												
S-4 (3)	11/29/2022		X	Grab/	1	X	X	X	X																												

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		11/30/22	2		
3		901	4		
5			6		

## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-22037-1

SDG Number: Eddy Co, NM

Login Number: 22037

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	



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 30, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: IRWIN 23 - 14 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/27/23 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 1 (11') (H230404-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/30/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 2 (11') (H230404-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28		
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50		
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63		
Total BTEx	<0.300	0.300	01/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	01/30/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 3 (11') (H230404-03)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28		
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50		
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63		
Total BTX	<0.300	0.300	01/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	01/27/2023	ND	400	100	400	3.92	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 4 (11') (H230404-04)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEx	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/27/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 5 (7') (H230404-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28		
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50		
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63		
Total BTEX	<0.300	0.300	01/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	01/27/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 6 (7') (H230404-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28		
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50		
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63		
Total BTEx	<0.300	0.300	01/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	01/27/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 7 (7') (H230404-07)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28		
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50		
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63		
Total BTEX	<0.300	0.300	01/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	01/27/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 8 (7') (H230404-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28		
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50		
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63		
Total BTEx	<0.300	0.300	01/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	01/27/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 9 (7') (H230404-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28		
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50		
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63		
Total BTEx	<0.300	0.300	01/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/27/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 1 (11') (H230404-10)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEx	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/27/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 2 (11') (H230404-11)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/27/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 3 (11') (H230404-12)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	01/27/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 4 (11') (H230404-13)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/27/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 5 (11') (H230404-14)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	01/27/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 6 (11') (H230404-15)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	01/27/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 7 (11') (H230404-16)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	01/27/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 8 (4') (H230404-17)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28		
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50		
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63		
Total BTEX	<0.300	0.300	01/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/27/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 9 (7') (H230404-18)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/27/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 10 (7') (H230404-19)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28		
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50		
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63		
Total BTEx	<0.300	0.300	01/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	01/27/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 11 (7') (H230404-20)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/27/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 12 (7') (H230404-21)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.96	98.0	2.00	0.445	
Toluene*	<0.050	0.050	01/27/2023	ND	2.10	105	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.05	102	2.00	1.18	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.39	107	6.00	2.46	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/27/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 01/27/2023  
 Reported: 01/30/2023  
 Project Name: IRWIN 23 - 14 FEDERAL BATTERY  
 Project Number: 1178  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 13 (7') (H230404-22)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.96	98.0	2.00	0.445	
Toluene*	<0.050	0.050	01/27/2023	ND	2.10	105	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.05	102	2.00	1.18	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.39	107	6.00	2.46	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/27/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



## Chain of Custody

Work Order No:

H230404

Page 1 of 3

Page 25 of 27

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cinmarex Energy
Address:	310 West Wall Ste. 415	Address:	600 N Marnefield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-5347	Email:	laci.luig@coterra.com & ashton.thielke@coterra.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <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:	Inwin 23-14 Federal Battery	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes				
Project Number:	1178	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush														None: NO	DI Water: H <sub>2</sub> O			
Project Location:	Eddy Co, NM	Due Date:	24 hr														Cool: Cool	MeOH: Me			
Sampler's Name:	AT	TAT starts the day received by the lab, if received by 4:30pm															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 type="checkbox"/>	Well Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H <sub>3</sub> PO <sub>4</sub> : HP			
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:																NaHSO <sub>4</sub> : NABIS			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:																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 type="checkbox"/>	Temperature Reading:																Zn Acetate+NaOH: Zn			
Total Containers:		Corrected Temperature:																NaOH+Ascorbic Acid: SAPC			
<b>Sample Identification</b>		Date	Time	Soil	Water	Grab/Comp	# of Cont													<b>Sample Comments</b>	
CS-1 (11')	1/27/2023			X		Comp	1	X	X	X											
CS-2 (11')	1/27/2023			X		Comp	1	X	X	X											
CS-3 (11')	1/27/2023			X		Comp	1	X	X	X											
CS-4 (11')	1/27/2023			X		Comp	1	X	X	X											
CS-5 (7')	1/27/2023			X		Comp	1	X	X	X											
CS-6 (7')	1/27/2023			X		Comp	1	X	X	X											
CS-7 (7')	1/27/2023			X		Comp	1	X	X	X											
CS-8 (7')	1/27/2023			X		Comp	1	X	X	X											
CS-9 (7')	1/27/2023			X		Comp	1	X	X	X											
SW-1 (11')	1/27/2023			X		Comp	1	X	X	X											

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1-27-23 1145			



Chain of Custody

Work Order No:

14330.404

Page 2 of 3

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 West Wall Ste. 415	Address:	600 N Marnefield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-5347	Email:	laci.luig@coterra.com & ashton.thielke@coterra.com

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

Project Name:	Irwin 23-14 Federal Battery	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes		
Project Number:	1178	Due Date:	24 hr													None: NO	DI Water: H <sub>2</sub> O
Project Location:	Eddy Co. NM															Cool: Cool	MeOH: Me
Sampler's Name:	AT															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 <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											H <sub>3</sub> PO <sub>4</sub> : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:														NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:														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 type="checkbox"/> 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	TPH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Please send results to cmoehring@carmonarresources.com and mcarmona@carmonarresources.com

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**Work Order No:**



H238404

Page 3 of 3

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <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:	

[illegible]

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		1-27-23 1145			

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 181943

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 181943
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2017854640 IRWIN 23-14 FEDERAL BATTERY, thank you. This closure is approved.	6/1/2023