CARMONA RESOURCES

SITE INFORMATION

Closure Report
Nocaster 19 Federal 003H (10.01.23)
Incident #NAPP2328936576
Lea County, New Mexico
Unit O Sec 19 T23S R34E
32.2843°, -103.5056°

Crude Oil and Produced Water Release
Point of Release: Flowline Leak
Release Date: 10.01.23
Volume Released: 0.09 Barrels of Crude Oil and 0.09 Barrels of Produced Water
Volume Recovered: 0 Barrels of Crude Oil and 0 Barrels of Produced Water

CARMONA RESOURCES

Prepared for:
Concho Operating, LLC
600 West Illinois Avenue
Midland, Texas 79701

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

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

CARMONA RESOURCES

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310 West Wall Street, Suite 500
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432.813.1992

CARMONA RESOURCES

November 7, 2023

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

Re: Closure Report
Nocaster 19 Federal 003H (10.01.23)
Concho Operating, LLC
Incident # NAPP2328936576
Site Location: Unit O, S19, T23S, R34E
(Lat 32.2843°, Long -103.5056°)
Lea County, New Mexico

To whom it may concern:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site activities for the Nocaster 19 Federal 003H (10.01.23). The site is located at 32.2843°, 103.5056° within Unit O, S19, T23S, R34E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on October 1, 2023, caused by a pinhole in a flowline due to internal corrosion. It resulted in the release of approximately zero point zero nine (0.09) barrels of crude oil and zero point zero nine (0.09) barrels of produced water with zero (0) barrels of crude oil and zero (0) barrels of produced water recovered. Refer to Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water source within a 0.50-mile radius of the location exists. The nearest identified well is located approximately 0.65 miles East of the site in S20, T23S, R34E and was drilled in 2022. The well has a reported depth to groundwater of 120 feet below the ground surface (ft bgs). A copy of the associated Point of Diversion Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

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CARMONA RESOURCES

4.0 Site Assessment Activities

Initial Assessment

On October 3, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of three (3) sample points (S-1 through S-3) and eight (8) horizontal samples (H-1 through H-8) were advanced to depths ranging from the surface to 4' bgs within and surrounding the release area to evaluate the vertical and horizontal extent of the contamination. See Figure 3 for the soil sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Vertical Delineation

Vertical delineation was achieved for the area of S-2. Vertical delineation was not achieved in the areas of S-1 and S-3 due to the dense layer encountered. The areas of S-1 and S-3 showed elevated TPH concentrations ranging from 116 mg/kg to 329 mg/kg. Refer to Table 1.

Horizontal Delineation

Horizontal delineation was achieved in all areas except for H-6, which showed high TPH concentrations at 483 mg/kg. 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 October 23, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of three (3) confirmation floor samples were collected (CS-1 through CS-3), and eleven (11) sidewall samples (SW-1 through SW-11) were collected every 200 square feet to ensure the proper removal of the contaminated soils. The area of H-6 was included in the excavation, with the sidewall extended until delineation was achieved. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

All final confirmation samples were below the reclamation and regulatory requirements for TPH, BTEX, and chloride. The area of H-6 was extended during remediation activities to ensure all contaminated soil was removed. Refer to Table 2.

6.0 Reclamation Activities

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. The backfilled areas were seeded On October 26, 2023. The appropriate pounds of pure live seed per acre were used. The seeds were applied via hand broadcasting method

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due to the area being less than ¼ acres. The surrounding topsoil was raked onto the seed to aid the vegetation process. The seed mixture used was SLO sandy loam (SL), per SLO criteria (See attachments in Appendix F).

Approximately 96 cubic yards of material were excavated and transported offsite for proper disposal.

7.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. The final C-141 is attached, and COG 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

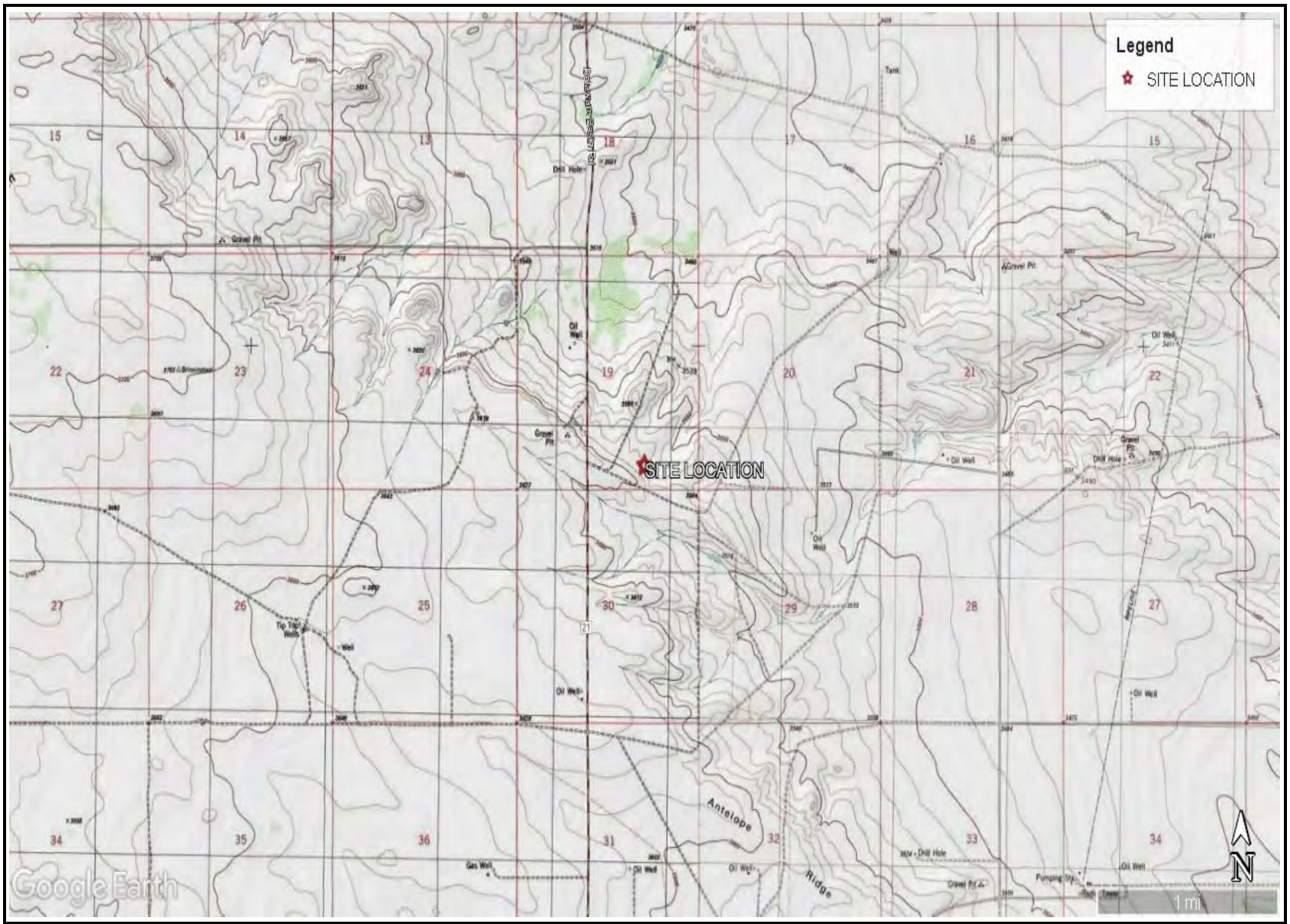
Devin Dominguez
Sr. Project Manager

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

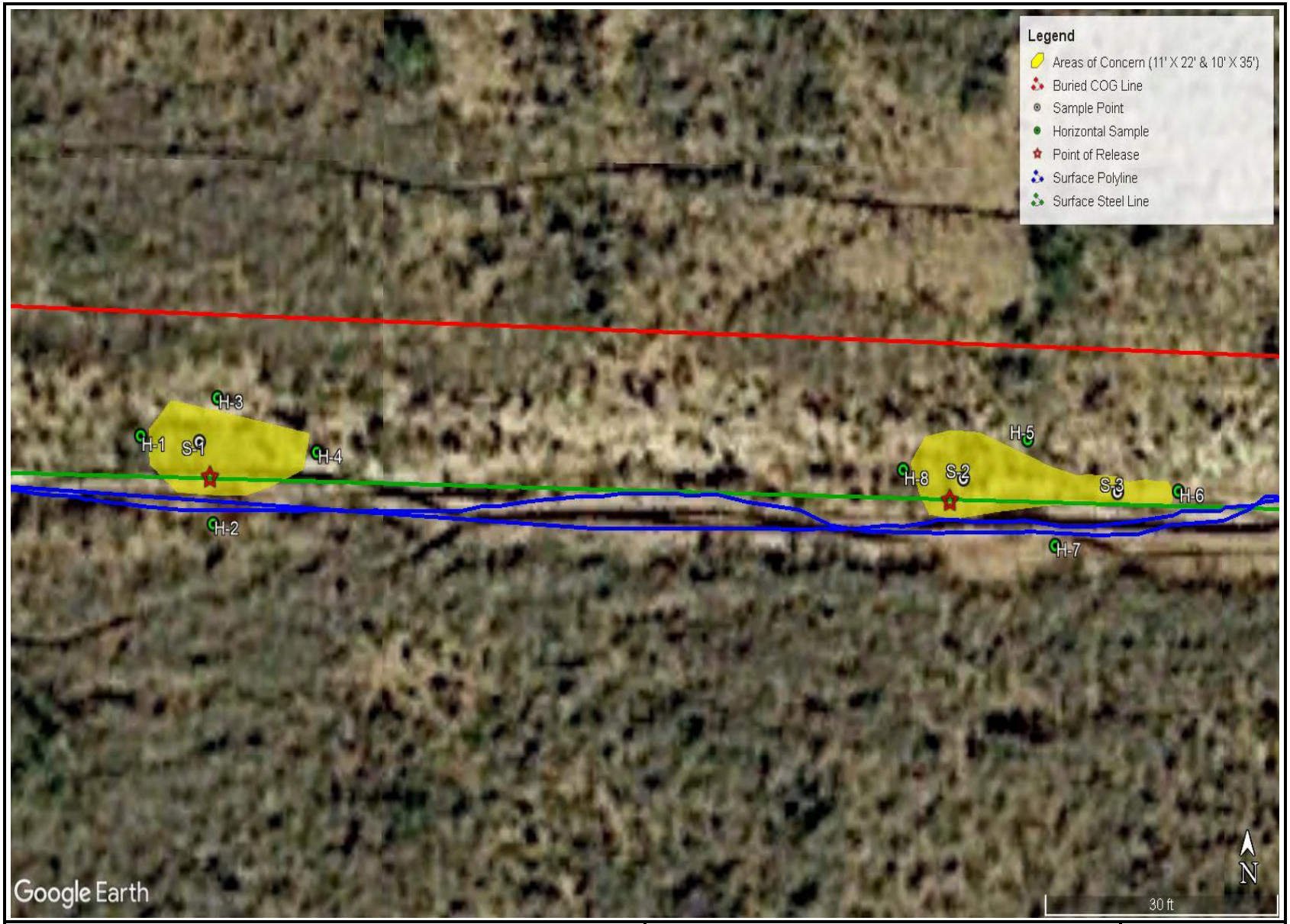
FIGURES

CARMONA RESOURCES

OVERVIEW MAP COG OPERATING, LLC NOCASTER19 FEDERAL 003H (10.01.23) LEA COUNTY, NEW MEXICO 32.2843°, -103.5056°	CARMONA RESOURCES	FIGURE 1



TOPOGRAPHIC MAP COG OPERATING, LLC NOCASTER19 FEDERAL 003H (10.01.23) LEA COUNTY, NEW MEXICO 32.2843°, -103.5056°	CARMONA RESOURCES	FIGURE 2



SAMPLE LOCATION MAP COG OPERATING, LLC NOCASTER19 FEDERAL 003H (10.01.23) LEA COUNTY, NEW MEXICO 32.2843°, -103.5056°	CARMONA RESOURCES	FIGURE 3

EXCAVATION MAP COG OPERATING, LLC NOCASTER19 FEDERAL 003H (10.01.23) LEA COUNTY, NEW MEXICO 32.2843°, -103.5056°	CARMONA RESOURCES	FIGURE 4

RECLAMATION MAP COG OPERATING, LLC NOCASTER19 FEDERAL 003H (10.01.23) LEA COUNTY, NEW MEXICO 32.2843°, -103.5056°	CARMONA RESOURCES	FIGURE 5

APPENDIX A

CARMONA RESOURCES

Table 1
COG Operating, LLC
Nocaster 19 Federal 3H (10.01.23)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	10/3/2023	0-1	**635**	**17,700**	**1,170**	**19,500**	0.128	2.62	2.42	16.8	21.9	**6,750**
	"	1.5	**171**	**9,480**	**525**	**10,200**	<0.0503	0.191	0.654	1.99	2.83	**6,010**
	"	2.0	**185**	**7,390**	**460**	**8,040**	<0.0501	0.153	0.621	1.71	2.49	**4,830**
	"	3.0	**320**	**9,920**	**626**	**10,900**	<0.0498	0.441	0.920	3.09	4.45	**3,550**
	"	4.0	<49.6	**329**	<49.6	**329**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	105
S-2	10/3/2023	0-1	**1,120**	**38,000**	**2,010**	**41,100**	<0.0495	3.14	2.95	16.2	22.3	**3,360**
	"	1.5	**459**	**16,100**	**1,050**	**17,600**	<0.0497	1.01	1.89	10.2	13.1	**4,890**
	"	2.0	**239**	**10,900**	**509**	**11,600**	<0.0499	0.187	1.27	4.43	5.89	**4,420**
	"	3.0	**392**	**15,200**	**919**	**16,500**	<0.0503	1.42	0.630	6.52	8.57	**4,220**
	"	4.0	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	103
S-3	10/3/2023	0-1	<50.1	**1,480**	**132**	**1,610**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	280
	"	1.5	<49.9	**2,350**	**179**	**2,530**	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	241
	"	2.0	<49.6	**116**	<49.6	**116**	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	124
Regulatory Criteria [A]						**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**

(-) Not Analyzed

[A] – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(S) Sample Point

Removed

Table 1
COG Operating, LLC
Nocaster 19 Federal 3H (10.01.23)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
H-1	10/3/2023	0-0.5	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	42.3
H-2	10/3/2023	0-0.5	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	99.7
H-3	10/3/2023	0-0.5	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	110
H-4	10/3/2023	0-0.5	<50.4	<50.4	<50.4	<50.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	99.0
H-5	10/3/2023	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	108
H-6	10/3/2023	0-0.5	<49.6	**429**	53.8	**483**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	83.1
H-7	10/3/2023	0-0.5	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	12.1
H-8	10/3/2023	0-0.5	<49.5	49.7	<49.5	49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	113
Regulatory Criteria [A]						**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**

(-) Not Analyzed

[A] – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(H) Horizontal Sample

Removed

Table 2
COG Operating, LLC
Nocaster 19 Fed 3H (10.01.23)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	10/26/2023	5.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	39.0
CS-2	10/26/2023	3.5	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	53.0
CS-3	10/26/2023	3.5	<50.5	<50.5	<50.5	<50.5	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	41.7
SW-1	10/26/2023	5.0	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	40.1
SW-2	10/26/2023	5.0	<49.6	<49.6	<49.6	<49.6	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	52.5
SW-3	10/26/2023	5.0	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	46.8
SW-4	10/26/2023	5.0	<50.5	<50.5	<50.5	<50.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	46.5
SW-5	10/26/2023	3.5	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	59.9
SW-6	10/26/2023	3.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	45.2
SW-7	10/26/2023	2.5	<49.6	<49.6	<49.6	<49.6	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	46.4
SW-8	10/26/2023	2.5	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	46.1
SW-9	10/26/2023	2.5	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	23.9
SW-10	10/26/2023	3.5	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	42.0
SW-11	10/26/2023	1.0	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	39.3
Regulatory Criteria [A]						**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**

(-) Not Analyzed
[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH- Total Petroleum Hydrocarbons
ft-feet
(CS) Confirmation Sample
(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

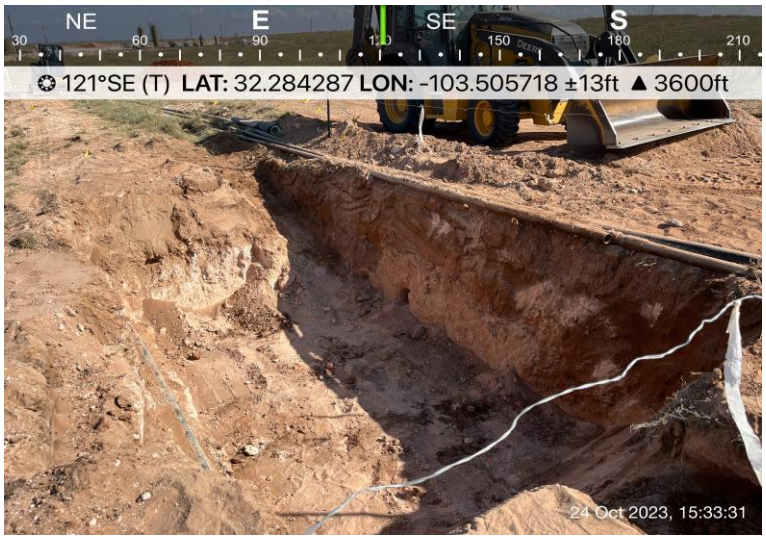
Concho Operating, LLC

Photograph No. 1

Facility: Nocaster 19 Federal 003H (10.01.23)

County: Lea County, New Mexico

Description:
View Southeast, area of CS-1.

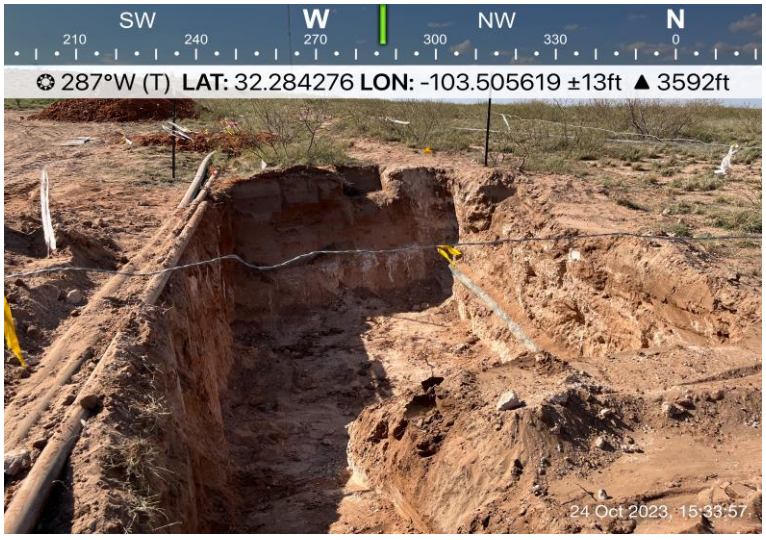


Photograph No. 2

Facility: Nocaster 19 Federal 003H (10.01.23)

County: Lea County, New Mexico

Description:
View West, area of CS-1.



Photograph No. 3

Facility: Nocaster 19 Federal 003H (10.01.23)

County: Lea County, New Mexico

Description:
View East, area of CS-2 and CS-3.

PHOTOGRAPHIC LOG

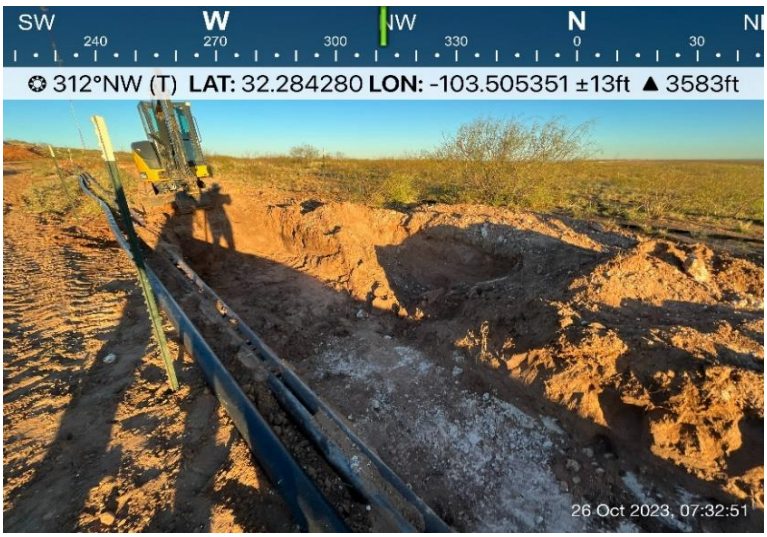
Concho Operating, LLC

Photograph No. 4

Facility: Nocaster 19 Federal 003H (10.01.23)

County: Lea County, New Mexico

Description:
View Northwest, area of CS-2 and CS-3.

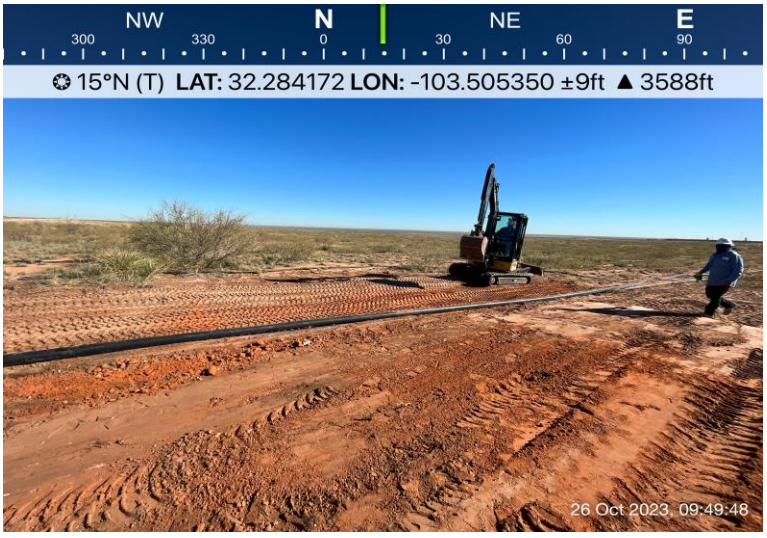


Photograph No. 5

Facility: Nocaster 19 Federal 003H (10.01.23)

County: Lea County, New Mexico

Description:
View Northeast, backfilled excavation area.



Photograph No. 6

Facility: Nocaster 19 Federal 003H (10.01.23)

County: Lea County, New Mexico

Description:
View Northeast, reclamated excavation area.

APPENDIX C

CARMONA RESOURCES

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

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☐ The source of the release has been stopped.
☐ The impacted area has been secured to protect human health and the environment.
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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 _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%.)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture (%.)	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)	Total Estimated Contaminated Soil, uncompacted, 25% (yd^3.)	Current Rule of Thumb - RMR Handover Volume, (yd^3.)
Rectangle A	8.0	6.0	1.0	Off-Pad	11.45%	0.71	0.08	50%	0.04	0.04	0.19	750
Rectangle B	6.0	6.0	1.0	Off-Pad	11.45%	0.53	0.06		0.03	0.03	0.14	
Rectangle C	3.0	8.0	1.0	Off-Pad	11.45%	0.36	0.04		0.02	0.02	0.09	
Rectangle D						0.00					0.00	
Rectangle E						0.00					0.00	
Rectangle F						0.00					0.00	
Rectangle G						0.00					0.00	
Rectangle H						0.00					0.00	
Rectangle I						0.00					0.00	
Rectangle J						0.00					0.00	
					Total Subsurface Volume Released:		0.1834		0.0917	0.0917	0.42	BU

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

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: Jacob Laird Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 11/20/2023

State of New Mexico
Oil Conservation Division

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: Jacob Laird Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 11/20/2023

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

Closure Approved by: Nelson Velez Date: 03/11/2024

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

From: Wells, Shelly, EMNRD
Sent: Monday, October 23, 2023 4:38 PM
To: Conner Moehring; Velez, Nelson, EMNRD; Bratcher, Michael, EMNRD
Cc: Laird, Jacob; Esparza, Brittany; Mike Carmona; Devin Dominguez; Clint Merritt
Subject: RE: [EXTERNAL] COG - Nocaster 19 Federal 003H (10.01.23) - Sampling Notification

Good evening Connor,

The OCD has received your notification. 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.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Conner Moehring <Cmoehring@carmonaresources.com>
Sent: Monday, October 23, 2023 4:20 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Laird, Jacob <Jacob.Laird@conocophillips.com>; Esparza, Brittany <Brittany.Esparza@conocophillips.com>; Mike Carmona <Mcarmona@carmonaresources.com>; Devin Dominguez <Ddominguez@carmonaresources.com>; Clint Merritt <MerrittC@carmonaresources.com>
Subject: [EXTERNAL] COG - Nocaster 19 Federal 003H (10.01.23) - Sampling Notification

Good Afternoon,

This email is a notification for confirmation sampling for the COG –Nocaster 19 Federal 003H (10.01.23). Sampling is scheduled to begin on Thursday, October 26th, around 8:00 a.m. Mountain Time. Carmona Resources personnel will be on-site to collect the confirmation samples.

NAPP2328936576

Please call if you have any questions.

Conner R. Moehring
310 West Wall Street, Suite 500
Midland Texas, 79701
M: 432-813-6823
Cmoehring@carmonaresources.com

APPENDIX D

CARMONA RESOURCES

Nearest Water Well

COG Operating

330' - Drilled 2019

225' - Drilled 1922

Nocaster 19 Fed 3H (10.01.23)

120' - Drilled 2022

Legend

- 0.50 Mile Radius
- 0.65 Miles
- 1.07 Miles
- 1.66 Miles
- NMSEO Water Well
- Nocaster 19 Fed 3H (10.01.23)

Google Earth

N

4000 ft

Low Karst
COG Operating

Legend
Low
Nocaster 19 Fed 3H (10.01.23)

Nocaster 19 Fed 3H (10.01.23)

Google Earth

N

1 mi

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

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

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04667 POD1	CUB	LE	3	4	3	20	23S	34E	641770	3572915	1051			
C 04353 POD1	CUB	ED	4	2	2	24	23S	33E	639474	3574098	1708	603	330	273
C 02282	CUB	LE	3	1	1	25	23S	33E	638098	3572436*	2666	325	225	100
C 02283	CUB	LE	4	2	2	26	23S	33E	637896	3572431*	2866	325	225	100
C 02284	CUB	LE	4	2	4	26	23S	33E	637907	3571626*	3099	325	225	100
C 03620 POD1	CUB	LE	1	4	3	32	23S	34E	641790	3569941	3173	480	130	350
CP 00556 POD1	CP	LE	4	4	3	08	23S	34E	641762	3576206	3439	497	255	242
C 04282 POD1	C	LE	1	2	1	05	24S	34E	641662	3569541	3516	574	390	184
CP 01886 POD1	CP	LE	4	1	4	07	23S	34E	640646	3576545	3616			

Average Depth to Water: **254 feet**

Minimum Depth: **130 feet**

Maximum Depth: **390 feet**

Record Count: 9

UTMNAD83 Radius Search (in meters):

Easting (X): 640719 **Northing (Y):** 3572929 **Radius:** 4000

***UTM location was derived from PLSS - see Help**

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.): C-4667-POD1	WELL TAG ID NO.:	OSE FILE NO(S.): C-04665
WELL OWNER NAME(S): COG OPERATING LLC		PHONE (OPTIONAL): 575-988-2043
WELL OWNER MAILING ADDRESS: 2208 W MAIN ST		CITY: ARTESIA STATE: NM ZIP: 88210

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	17	2.55	N
	LONGITUDE	-103	29	40.16	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE: KING TUT FEDERAL 001H

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1184	RUSSELL SOUTHERLAND	WEST TEXAS WATER WELL SERVICE

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
9/15/2022	09/15/2022	120		

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
			NO CASING IN HOLE				

3. ANNULAR MATERIAL

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

OSE DII OCT 3 2022 PM4:37

FOR OSE INTERNAL USE

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

FILE NO. C-04667 POD1	POD NO. 1	TRN NO. 733232	
LOCATION 23S.34E.20.3.4.3		WELL TAG ID NO. NA	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	17		CALICHIE	Y ✔ N	
17	60		SAND	Y ✔ N	
60	120		RED SANDY CLAY	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☑ OTHER – SPECIFY: DRY HOLE

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

OSE DII OCT 3 2022 PM4:37

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

RUSSELL SOUTHERLAND

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Russell Southerland Russell Southerland — RUSSELL SOUTHERLAND

SIGNATURE OF DRILLER / PRINT SIGNEE NAME

09/15/2022

DATE

FOR OSE INTERNAL USE

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

FILE NO. C-04667	POD NO. 1	TRN NO. 733232	
LOCATION 23S.34E.20.34.		WELL TAG ID NO. NA	PAGE 2 OF 2

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04353 POD1	4	2	2	24	23S	33E	639474	3574098

Driller License:	1737	**Driller Company:**	SHADE TREE DRILLING		
Driller Name:	JUSTIN MULLINS				
Drill Start Date:	11/04/2019	**Drill Finish Date:**	11/13/2019	**Plug Date:**	
Log File Date:	01/29/2020	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	30 GPM
Casing Size:	6.00	**Depth Well:**	603 feet	**Depth Water:**	330 feet

Water Bearing Stratifications:	Top	Bottom	Description
	330	344	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	301	601

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	C 02282	3	1	1	25	23S	33E	638098	3572436*

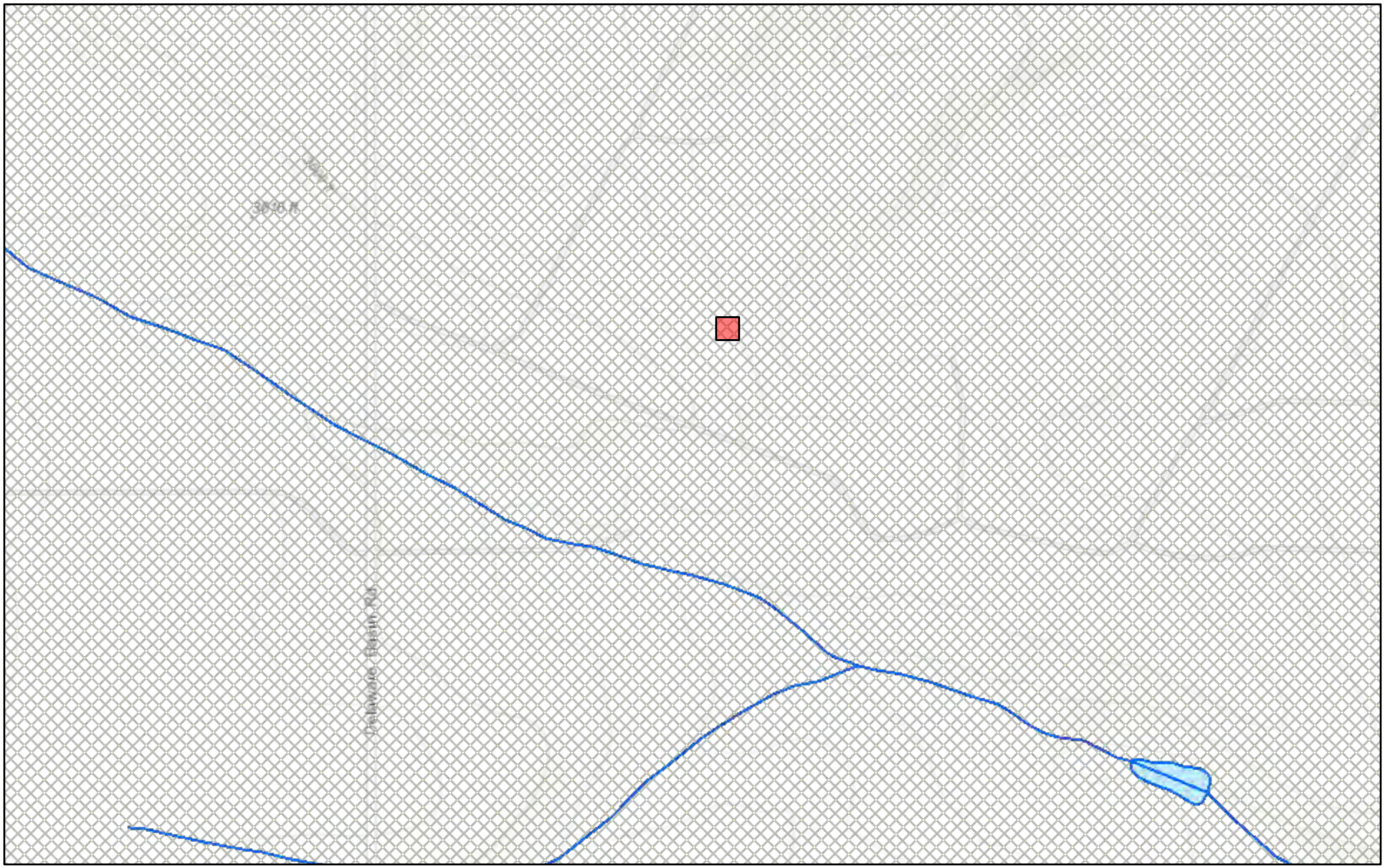
Driller License: **Driller Company:**

Driller Name: CARL BRININSTOOL

Drill Start Date:		**Drill Finish Date:**	12/31/1922	**Plug Date:**	
Log File Date:		**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	3 GPM
Casing Size:	6.50	**Depth Well:**	325 feet	**Depth Water:**	225 feet

***UTM location was derived from PLSS - see Help**

New Mexico NFHL Data



October 2, 2023

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/10/2023 4:20:29 PM

JOB DESCRIPTION

Nocaster 19 Fed 3H (10.01.23)
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34091-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
10/10/2023 4:20:29 PM

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

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Laboratory Job ID: 880-34091-1
SDG: Lea County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.

HPLC/IC

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

Glossary

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

Definitions/Glossary

Client: Carmona Resources
Job ID: 880-34091-1
Project/Site: Nocaster 19 Fed 3H (10.01.23)
SDG: Lea County, New Mexico

Glossary (Continued)

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

Case Narrative

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Job ID: 880-34091-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-34091-1

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

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

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

Receipt
The samples were received on 10/6/2023 10:39 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 -2.1°C

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-64079 recovered above the upper control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-64143 and analytical batch 880-64079 recovered outside control limits for the following analytes: Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-64079 recovered above the upper control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-64079/113).

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-2 (4.0') (880-34091-10), S-3 (1.5') (880-34091-12), (LCS 880-64143/1-A), (LCSD 880-64143/2-A), (880-34088-A-1-F), (880-34088-A-1-D MS) and (880-34088-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 880-64139 and 880-64183 and analytical batch 880-64180 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 (3.0') (880-34091-4) and S-2 (1.5') (880-34091-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-64143 and analytical batch 880-64079 were outside control limits. Non-homogeneity is suspected.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-64183 and analytical batch 880-64180 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The following samples were diluted due to the nature of the sample matrix: S-1 (1.5') (880-34091-2), S-1 (2.0') (880-34091-3), S-1 (3.0') (880-34091-4), S-2 (0-1') (880-34091-6), S-2 (1.5') (880-34091-7), S-2 (2.0') (880-34091-8) and S-2 (3.0') (880-34091-9). Elevated reporting limits (RLs) are provided.

Case Narrative

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Job ID: 880-34091-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-64148 and analytical batch 880-64170 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-1 (0-1') (880-34091-1), S-1 (1.5') (880-34091-2), S-1 (3.0') (880-34091-4), S-2 (0-1') (880-34091-6), S-2 (1.5') (880-34091-7), S-2 (2.0') (880-34091-8) and S-2 (3.0') (880-34091-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-64148 and analytical batch 880-64170 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-2 (4.0') (880-34091-10), S-3 (2.0') (880-34091-13), (890-5407-A-4-C MS) and (890-5407-A-4-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-64055 and analytical batch 880-64187 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-64131 and analytical batch 880-64310 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-64130 and analytical batch 880-64309 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34091-1
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.128		0.0498		mg/Kg		10/08/23 14:04	10/09/23 04:53	25
Toluene	2.62		0.0498		mg/Kg		10/08/23 14:04	10/09/23 04:53	25
Ethylbenzene	2.42		0.0498		mg/Kg		10/08/23 14:04	10/09/23 04:53	25
m-Xylene & p-Xylene	12.2		0.0996		mg/Kg		10/08/23 14:04	10/09/23 04:53	25
o-Xylene	4.57		0.0498		mg/Kg		10/08/23 14:04	10/09/23 04:53	25
Xylenes, Total	16.8		0.0996		mg/Kg		10/08/23 14:04	10/09/23 04:53	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*10/08/23 14:04*	*10/09/23 04:53*	*25*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*10/08/23 14:04*	*10/09/23 04:53*	*25*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	21.9		0.0996		mg/Kg			10/09/23 04:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19500		252		mg/Kg			10/08/23 02:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	635		252		mg/Kg		10/06/23 13:49	10/08/23 02:47	5
Diesel Range Organics (Over C10-C28)	17700		252		mg/Kg		10/06/23 13:49	10/08/23 02:47	5
Oil Range Organics (Over C28-C36)	1170		252		mg/Kg		10/06/23 13:49	10/08/23 02:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*142*	*S1+*	*70 - 130*	*10/06/23 13:49*	*10/08/23 02:47*	*5*
o-Terphenyl	*157*	*S1+*	*70 - 130*	*10/06/23 13:49*	*10/08/23 02:47*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6750		50.3		mg/Kg			10/10/23 11:39	10

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-34091-2
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0503	U	0.0503		mg/Kg		10/08/23 14:04	10/09/23 05:13	25
Toluene	0.191		0.0503		mg/Kg		10/08/23 14:04	10/09/23 05:13	25
Ethylbenzene	0.654		0.0503		mg/Kg		10/08/23 14:04	10/09/23 05:13	25
m-Xylene & p-Xylene	1.46		0.101		mg/Kg		10/08/23 14:04	10/09/23 05:13	25
o-Xylene	0.529		0.0503		mg/Kg		10/08/23 14:04	10/09/23 05:13	25
Xylenes, Total	1.99		0.101		mg/Kg		10/08/23 14:04	10/09/23 05:13	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*10/08/23 14:04*	*10/09/23 05:13*	*25*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*10/08/23 14:04*	*10/09/23 05:13*	*25*

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Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-34091-2
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	2.83		0.101		mg/Kg			10/09/23 05:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	10200		248		mg/Kg			10/08/23 07:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	171		49.5		mg/Kg		10/06/23 13:49	10/08/23 01:23	1
Diesel Range Organics (Over C10-C28)	9480		248		mg/Kg		10/06/23 13:49	10/08/23 07:22	5
Oil Range Organics (Over C28-C36)	525		49.5		mg/Kg		10/06/23 13:49	10/08/23 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*10/06/23 13:49*	*10/08/23 01:23*	*1*
1-Chlorooctane	*127*		*70 - 130*	*10/06/23 13:49*	*10/08/23 07:22*	*5*
o-Terphenyl	*128*		*70 - 130*	*10/06/23 13:49*	*10/08/23 01:23*	*1*
o-Terphenyl	*155*	*S1+*	*70 - 130*	*10/06/23 13:49*	*10/08/23 07:22*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6010		50.3		mg/Kg			10/10/23 11:44	10

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-34091-3
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0501	U	0.0501		mg/Kg		10/08/23 14:04	10/09/23 05:34	25
Toluene	0.153		0.0501		mg/Kg		10/08/23 14:04	10/09/23 05:34	25
Ethylbenzene	0.621		0.0501		mg/Kg		10/08/23 14:04	10/09/23 05:34	25
m-Xylene & p-Xylene	1.30		0.100		mg/Kg		10/08/23 14:04	10/09/23 05:34	25
o-Xylene	0.414		0.0501		mg/Kg		10/08/23 14:04	10/09/23 05:34	25
Xylenes, Total	1.71		0.100		mg/Kg		10/08/23 14:04	10/09/23 05:34	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*10/08/23 14:04*	*10/09/23 05:34*	*25*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*10/08/23 14:04*	*10/09/23 05:34*	*25*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	2.49		0.100		mg/Kg			10/09/23 05:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	8040		49.6		mg/Kg			10/08/23 02:26	1

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-34091-3
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	185		49.6		mg/Kg		10/06/23 13:49	10/08/23 02:26	1
Diesel Range Organics (Over C10-C28)	7390		49.6		mg/Kg		10/06/23 13:49	10/08/23 02:26	1
Oil Range Organics (Over C28-C36)	460		49.6		mg/Kg		10/06/23 13:49	10/08/23 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*10/06/23 13:49*	*10/08/23 02:26*	*1*
o-Terphenyl	*111*		*70 - 130*	*10/06/23 13:49*	*10/08/23 02:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4830	F1	49.7		mg/Kg			10/09/23 22:22	10

Client Sample ID: S-1 (3.0')

Lab Sample ID: 880-34091-4
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0498	U	0.0498		mg/Kg		10/08/23 14:04	10/09/23 05:54	25
Toluene	0.441		0.0498		mg/Kg		10/08/23 14:04	10/09/23 05:54	25
Ethylbenzene	0.920		0.0498		mg/Kg		10/08/23 14:04	10/09/23 05:54	25
m-Xylene & p-Xylene	1.99		0.0996		mg/Kg		10/08/23 14:04	10/09/23 05:54	25
o-Xylene	1.10		0.0498		mg/Kg		10/08/23 14:04	10/09/23 05:54	25
Xylenes, Total	3.09		0.0996		mg/Kg		10/08/23 14:04	10/09/23 05:54	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*10/08/23 14:04*	*10/09/23 05:54*	*25*
1,4-Difluorobenzene (Surr)	*64*	*S1-*	*70 - 130*	*10/08/23 14:04*	*10/09/23 05:54*	*25*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	4.45		0.0996		mg/Kg			10/09/23 05:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	10900		248		mg/Kg			10/08/23 08:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	320		49.7		mg/Kg		10/06/23 13:49	10/08/23 02:05	1
Diesel Range Organics (Over C10-C28)	9920		248		mg/Kg		10/06/23 13:49	10/08/23 08:06	5
Oil Range Organics (Over C28-C36)	626		49.7		mg/Kg		10/06/23 13:49	10/08/23 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*166*	*S1+*	*70 - 130*	*10/06/23 13:49*	*10/08/23 02:05*	*1*
1-Chlorooctane	*126*		*70 - 130*	*10/06/23 13:49*	*10/08/23 08:06*	*5*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*10/06/23 13:49*	*10/08/23 02:05*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (3.0')

Lab Sample ID: 880-34091-4
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*118*		*70 - 130*	*10/06/23 13:49*	*10/08/23 08:06*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3550**		24.8		mg/Kg			10/09/23 22:42	5

Client Sample ID: S-1 (4.0')

Lab Sample ID: 880-34091-5
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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		10/06/23 13:03	10/07/23 23:54	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		10/06/23 13:03	10/07/23 23:54	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		10/06/23 13:03	10/07/23 23:54	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		10/06/23 13:03	10/07/23 23:54	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		10/06/23 13:03	10/07/23 23:54	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		10/06/23 13:03	10/07/23 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*10/06/23 13:03*	*10/07/23 23:54*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*10/06/23 13:03*	*10/07/23 23:54*	*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			10/07/23 23:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**329**		49.6		mg/Kg			10/08/23 04:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		10/06/23 13:49	10/08/23 04:11	1
Diesel Range Organics (Over C10-C28)	**329**		49.6		mg/Kg		10/06/23 13:49	10/08/23 04:11	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/06/23 13:49	10/08/23 04:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*10/06/23 13:49*	*10/08/23 04:11*	*1*
o-Terphenyl	*129*		*70 - 130*	*10/06/23 13:49*	*10/08/23 04:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**105**		5.04		mg/Kg			10/09/23 22:48	1

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34091-6
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0495	U	0.0495		mg/Kg		10/08/23 14:04	10/09/23 06:15	25
Toluene	3.14		0.0495		mg/Kg		10/08/23 14:04	10/09/23 06:15	25
Ethylbenzene	2.95		0.0495		mg/Kg		10/08/23 14:04	10/09/23 06:15	25
m-Xylene & p-Xylene	12.1		0.0990		mg/Kg		10/08/23 14:04	10/09/23 06:15	25
o-Xylene	4.11		0.0495		mg/Kg		10/08/23 14:04	10/09/23 06:15	25
Xylenes, Total	16.2		0.0990		mg/Kg		10/08/23 14:04	10/09/23 06:15	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*10/08/23 14:04*	*10/09/23 06:15*	*25*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*10/08/23 14:04*	*10/09/23 06:15*	*25*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	22.3		0.0990		mg/Kg			10/09/23 06:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	41100		250		mg/Kg			10/08/23 03:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1120		250		mg/Kg		10/06/23 13:49	10/08/23 03:08	5
Diesel Range Organics (Over C10-C28)	38000		250		mg/Kg		10/06/23 13:49	10/08/23 03:08	5
Oil Range Organics (Over C28-C36)	2010		250		mg/Kg		10/06/23 13:49	10/08/23 03:08	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*250*	*S1+*	*70 - 130*	*10/06/23 13:49*	*10/08/23 03:08*	*5*
o-Terphenyl	*464*	*S1+*	*70 - 130*	*10/06/23 13:49*	*10/08/23 03:08*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3360		25.1		mg/Kg			10/09/23 22:55	5

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-34091-7
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0497	U	0.0497		mg/Kg		10/08/23 14:04	10/09/23 06:35	25
Toluene	1.01		0.0497		mg/Kg		10/08/23 14:04	10/09/23 06:35	25
Ethylbenzene	1.89		0.0497		mg/Kg		10/08/23 14:04	10/09/23 06:35	25
m-Xylene & p-Xylene	8.14		0.0994		mg/Kg		10/08/23 14:04	10/09/23 06:35	25
o-Xylene	2.02		0.0497		mg/Kg		10/08/23 14:04	10/09/23 06:35	25
Xylenes, Total	10.2		0.0994		mg/Kg		10/08/23 14:04	10/09/23 06:35	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*10/08/23 14:04*	*10/09/23 06:35*	*25*
1,4-Difluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*10/08/23 14:04*	*10/09/23 06:35*	*25*

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-34091-7
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	13.1		0.0994		mg/Kg			10/09/23 06:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	17600		252		mg/Kg			10/08/23 03:29	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	459		252		mg/Kg		10/06/23 13:49	10/08/23 03:29	5
Diesel Range Organics (Over C10-C28)	16100		252		mg/Kg		10/06/23 13:49	10/08/23 03:29	5
Oil Range Organics (Over C28-C36)	1050		252		mg/Kg		10/06/23 13:49	10/08/23 03:29	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*10/06/23 13:49*	*10/08/23 03:29*	*5*
o-Terphenyl	*173*	*S1+*	*70 - 130*	*10/06/23 13:49*	*10/08/23 03:29*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4890		25.3		mg/Kg			10/09/23 23:02	5

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-34091-8
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0499	U	0.0499		mg/Kg		10/08/23 14:04	10/09/23 06:56	25
Toluene	0.187		0.0499		mg/Kg		10/08/23 14:04	10/09/23 06:56	25
Ethylbenzene	1.27		0.0499		mg/Kg		10/08/23 14:04	10/09/23 06:56	25
m-Xylene & p-Xylene	3.13		0.0998		mg/Kg		10/08/23 14:04	10/09/23 06:56	25
o-Xylene	1.30		0.0499		mg/Kg		10/08/23 14:04	10/09/23 06:56	25
Xylenes, Total	4.43		0.0998		mg/Kg		10/08/23 14:04	10/09/23 06:56	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*10/08/23 14:04*	*10/09/23 06:56*	*25*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*10/08/23 14:04*	*10/09/23 06:56*	*25*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	5.89		0.0998		mg/Kg			10/09/23 06:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	11600		251		mg/Kg			10/08/23 07:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	239		50.2		mg/Kg		10/06/23 13:49	10/08/23 01:44	1

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-34091-8
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	10900		251		mg/Kg		10/06/23 13:49	10/08/23 07:44	5
Oil Range Organics (Over C28-C36)	509		50.2		mg/Kg		10/06/23 13:49	10/08/23 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*10/06/23 13:49*	*10/08/23 01:44*	*1*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*10/06/23 13:49*	*10/08/23 07:44*	*5*
o-Terphenyl	*121*		*70 - 130*	*10/06/23 13:49*	*10/08/23 01:44*	*1*
o-Terphenyl	*155*	*S1+*	*70 - 130*	*10/06/23 13:49*	*10/08/23 07:44*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4420		50.5		mg/Kg			10/09/23 23:22	10

Client Sample ID: S-2 (3.0')

Lab Sample ID: 880-34091-9
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0503	U	0.0503		mg/Kg		10/08/23 14:04	10/09/23 07:16	25
Toluene	1.42		0.0503		mg/Kg		10/08/23 14:04	10/09/23 07:16	25
Ethylbenzene	0.630		0.0503		mg/Kg		10/08/23 14:04	10/09/23 07:16	25
m-Xylene & p-Xylene	3.66		0.101		mg/Kg		10/08/23 14:04	10/09/23 07:16	25
o-Xylene	2.86		0.0503		mg/Kg		10/08/23 14:04	10/09/23 07:16	25
Xylenes, Total	6.52		0.101		mg/Kg		10/08/23 14:04	10/09/23 07:16	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*10/08/23 14:04*	*10/09/23 07:16*	*25*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*10/08/23 14:04*	*10/09/23 07:16*	*25*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	8.57		0.101		mg/Kg			10/09/23 07:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16500		249		mg/Kg			10/08/23 03:50	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	392		249		mg/Kg		10/06/23 13:49	10/08/23 03:50	5
Diesel Range Organics (Over C10-C28)	15200		249		mg/Kg		10/06/23 13:49	10/08/23 03:50	5
Oil Range Organics (Over C28-C36)	919		249		mg/Kg		10/06/23 13:49	10/08/23 03:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*10/06/23 13:49*	*10/08/23 03:50*	*5*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*10/06/23 13:49*	*10/08/23 03:50*	*5*

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (3.0')
Lab Sample ID: 880-34091-9
Date Collected: 10/03/23 00:00
Matrix: Solid
Date Received: 10/06/23 10:39

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4220		25.2		mg/Kg			10/09/23 23:28	5

Client Sample ID: S-2 (4.0')
Lab Sample ID: 880-34091-10
Date Collected: 10/03/23 00:00
Matrix: Solid
Date Received: 10/06/23 10:39

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		10/06/23 13:03	10/08/23 00:14	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		10/06/23 13:03	10/08/23 00:14	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		10/06/23 13:03	10/08/23 00:14	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		10/06/23 13:03	10/08/23 00:14	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		10/06/23 13:03	10/08/23 00:14	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		10/06/23 13:03	10/08/23 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*10/06/23 13:03*	*10/08/23 00:14*	*1*
1,4-Difluorobenzene (Surr)	*49*	*S1-*	*70 - 130*	*10/06/23 13:03*	*10/08/23 00:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/08/23 00:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/09/23 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/06/23 13:53	10/09/23 14:11	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		10/06/23 13:53	10/09/23 14:11	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/06/23 13:53	10/09/23 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*55*	*S1-*	*70 - 130*	*10/06/23 13:53*	*10/09/23 14:11*	*1*
o-Terphenyl	*54*	*S1-*	*70 - 130*	*10/06/23 13:53*	*10/09/23 14:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		4.99		mg/Kg			10/09/23 23:35	1

Client Sample ID: S-3 (0-1')
Lab Sample ID: 880-34091-11
Date Collected: 10/03/23 00:00
Matrix: Solid
Date Received: 10/06/23 10:39

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		10/06/23 13:03	10/08/23 00:35	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		10/06/23 13:03	10/08/23 00:35	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		10/06/23 13:03	10/08/23 00:35	1

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

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

Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

Lab Sample ID: 880-34091-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		10/06/23 13:03	10/08/23 00:35	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		10/06/23 13:03	10/08/23 00:35	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		10/06/23 13:03	10/08/23 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*10/06/23 13:03*	*10/08/23 00:35*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*10/06/23 13:03*	*10/08/23 00:35*	*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			10/08/23 00:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1610**		50.1		mg/Kg			10/09/23 14:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		10/06/23 13:53	10/09/23 14:33	1
Diesel Range Organics (Over C10-C28)	**1480**		50.1		mg/Kg		10/06/23 13:53	10/09/23 14:33	1
Oil Range Organics (Over C28-C36)	**132**		50.1		mg/Kg		10/06/23 13:53	10/09/23 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*10/06/23 13:53*	*10/09/23 14:33*	*1*
o-Terphenyl	*95*		*70 - 130*	*10/06/23 13:53*	*10/09/23 14:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		4.98		mg/Kg			10/09/23 23:42	1

Client Sample ID: S-3 (1.5')

Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

Lab Sample ID: 880-34091-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/06/23 13:03	10/08/23 00:55	1
Toluene	<0.00201	U *+	0.00201		mg/Kg		10/06/23 13:03	10/08/23 00:55	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		10/06/23 13:03	10/08/23 00:55	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		10/06/23 13:03	10/08/23 00:55	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		10/06/23 13:03	10/08/23 00:55	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		10/06/23 13:03	10/08/23 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*10/06/23 13:03*	*10/08/23 00:55*	*1*
1,4-Difluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*10/06/23 13:03*	*10/08/23 00:55*	*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			10/08/23 00:55	1

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-34091-12
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2530**		49.9		mg/Kg			10/09/23 14:55	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		10/06/23 13:53	10/09/23 14:55	1
Diesel Range Organics (Over C10-C28)	**2350**		49.9		mg/Kg		10/06/23 13:53	10/09/23 14:55	1
Oil Range Organics (Over C28-C36)	**179**		49.9		mg/Kg		10/06/23 13:53	10/09/23 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*10/06/23 13:53*	*10/09/23 14:55*	*1*
o-Terphenyl	*105*		*70 - 130*	*10/06/23 13:53*	*10/09/23 14:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**241**		4.96		mg/Kg			10/09/23 23:48	1

Client Sample ID: S-3 (2.0')

Lab Sample ID: 880-34091-13
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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		10/06/23 13:00	10/09/23 00:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/06/23 13:00	10/09/23 00:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/06/23 13:00	10/09/23 00:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/06/23 13:00	10/09/23 00:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/06/23 13:00	10/09/23 00:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/06/23 13:00	10/09/23 00:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*10/06/23 13:00*	*10/09/23 00:34*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*10/06/23 13:00*	*10/09/23 00:34*	*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			10/09/23 00:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**116**		49.6		mg/Kg			10/09/23 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		10/06/23 13:53	10/09/23 15:17	1
Diesel Range Organics (Over C10-C28)	**116**		49.6		mg/Kg		10/06/23 13:53	10/09/23 15:17	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/06/23 13:53	10/09/23 15:17	1

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (2.0')

Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

Lab Sample ID: 880-34091-13

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	10/06/23 13:53	10/09/23 15:17	1
o-Terphenyl	67	S1-	70 - 130	10/06/23 13:53	10/09/23 15:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		5.04		mg/Kg			10/09/23 23:55	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-34086-A-21-B MS	Matrix Spike	104	94
880-34086-A-21-C MSD	Matrix Spike Duplicate	104	95
880-34088-A-1-D MS	Matrix Spike	137 S1+	115
880-34088-A-1-E MSD	Matrix Spike Duplicate	134 S1+	93
880-34091-1	S-1 (0-1')	111	76
880-34091-2	S-1 (1.5')	95	77
880-34091-3	S-1 (2.0')	84	83
880-34091-4	S-1 (3.0')	79	64 S1-
880-34091-5	S-1 (4.0')	87	70
880-34091-6	S-2 (0-1')	109	91
880-34091-7	S-2 (1.5')	83	67 S1-
880-34091-8	S-2 (2.0')	95	78
880-34091-9	S-2 (3.0')	92	78
880-34091-10	S-2 (4.0')	77	49 S1-
880-34091-11	S-3 (0-1')	90	72
880-34091-12	S-3 (1.5')	92	69 S1-
880-34091-13	S-3 (2.0')	104	115
880-34108-A-1-E MS	Matrix Spike	96	114
880-34108-A-1-F MSD	Matrix Spike Duplicate	97	97
LCS 880-64139/1-A	Lab Control Sample	101	107
LCS 880-64143/1-A	Lab Control Sample	135 S1+	113
LCS 880-64183/1-A	Lab Control Sample	93	107
LCSD 880-64139/2-A	Lab Control Sample Dup	100	109
LCSD 880-64143/2-A	Lab Control Sample Dup	137 S1+	115
LCSD 880-64183/2-A	Lab Control Sample Dup	92	109
MB 880-64138/5-A	Method Blank	72	94
MB 880-64139/5-A	Method Blank	116	151 S1+
MB 880-64143/5-A	Method Blank	74	71
MB 880-64183/5-A	Method Blank	142 S1+	162 S1+

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-34088-A-8-E MS	Matrix Spike	115	108
880-34088-A-8-F MSD	Matrix Spike Duplicate	88	85
880-34091-1	S-1 (0-1')	142 S1+	157 S1+
880-34091-2	S-1 (1.5')	140 S1+	128
880-34091-2	S-1 (1.5')	127	155 S1+
880-34091-3	S-1 (2.0')	128	111
880-34091-4	S-1 (3.0')	166 S1+	136 S1+
880-34091-4	S-1 (3.0')	126	118
880-34091-5	S-1 (4.0')	129	129
880-34091-6	S-2 (0-1')	250 S1+	464 S1+

Surrogate Summary

Client: Carmona Resources Job ID: 880-34091-1
Project/Site: Nocaster 19 Fed 3H (10.01.23) SDG: Lea County, New Mexico

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-34091-7	S-2 (1.5')	136 S1+	173 S1+										
880-34091-8	S-2 (2.0')	122	121										
880-34091-8	S-2 (2.0')	134 S1+	155 S1+										
880-34091-9	S-2 (3.0')	136 S1+	133 S1+										
880-34091-10	S-2 (4.0')	55 S1-	54 S1-										
880-34091-11	S-3 (0-1')	91	95										
880-34091-12	S-3 (1.5')	101	105										
880-34091-13	S-3 (2.0')	73	67 S1-										
890-5407-A-4-C MS	Matrix Spike	64 S1-	58 S1-										
890-5407-A-4-D MSD	Matrix Spike Duplicate	78	69 S1-										
LCS 880-64055/2-A	Lab Control Sample	102	106										
LCS 880-64148/2-A	Lab Control Sample	101	105										
LCSD 880-64055/3-A	Lab Control Sample Dup	115	119										
LCSD 880-64148/3-A	Lab Control Sample Dup	101	106										
MB 880-64055/1-A	Method Blank	76	85										
MB 880-64148/1-A	Method Blank	139 S1+	160 S1+										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64138/5-A
Matrix: Solid
Analysis Batch: 64079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64138

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/06/23 12:59	10/07/23 08:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/06/23 12:59	10/07/23 08:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/06/23 12:59	10/07/23 08:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/06/23 12:59	10/07/23 08:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/06/23 12:59	10/07/23 08:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/06/23 12:59	10/07/23 08:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*10/06/23 12:59*	*10/07/23 08:33*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*10/06/23 12:59*	*10/07/23 08:33*	*1*

Lab Sample ID: MB 880-64139/5-A
Matrix: Solid
Analysis Batch: 64180

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/08/23 16:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/08/23 16:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/08/23 16:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/06/23 13:00	10/08/23 16:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/08/23 16:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/06/23 13:00	10/08/23 16:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*10/06/23 13:00*	*10/08/23 16:08*	*1*
1,4-Difluorobenzene (Surr)	*151*	*S1+*	*70 - 130*	*10/06/23 13:00*	*10/08/23 16:08*	*1*

Lab Sample ID: LCS 880-64139/1-A
Matrix: Solid
Analysis Batch: 64180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1007		mg/Kg		101	70 - 130
Toluene	0.100	0.09530		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.08581		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1871		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09865		mg/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 880-64139/2-A
Matrix: Solid
Analysis Batch: 64180

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64139

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1057		mg/Kg		106	70 - 130	5	35

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-64139/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64180 — **Prep Batch: 64139**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09820		mg/Kg		98	70 - 130	3	35
Ethylbenzene			0.100	0.09231		mg/Kg		92	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2066		mg/Kg		103	70 - 130	10	35
o-Xylene			0.100	0.09815		mg/Kg		98	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 880-34086-A-21-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64180 — **Prep Batch: 64139**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.09262		mg/Kg		93	70 - 130
Toluene	<0.00199	U	0.0998	0.09462		mg/Kg		95	70 - 130
Ethylbenzene	<0.00199	U	0.0998	0.08829		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2068		mg/Kg		104	70 - 130
o-Xylene	<0.00199	U	0.0998	0.1007		mg/Kg		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-34086-A-21-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64180 — **Prep Batch: 64139**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08793		mg/Kg		88	70 - 130	5	35
Toluene	<0.00199	U	0.100	0.07960		mg/Kg		79	70 - 130	17	35
Ethylbenzene	<0.00199	U	0.100	0.07134		mg/Kg		71	70 - 130	21	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1675		mg/Kg		83	70 - 130	21	35
o-Xylene	<0.00199	U	0.100	0.08464		mg/Kg		84	70 - 130	17	35

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

Lab Sample ID: MB 880-64143/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64079 — **Prep Batch: 64143**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:03	10/07/23 19:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:03	10/07/23 19:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:03	10/07/23 19:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/06/23 13:03	10/07/23 19:07	1

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-64143/5-A
Matrix: Solid
Analysis Batch: 64079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64143

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:03	10/07/23 19:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/06/23 13:03	10/07/23 19:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*10/06/23 13:03*	*10/07/23 19:07*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*10/06/23 13:03*	*10/07/23 19:07*	*1*

Lab Sample ID: LCS 880-64143/1-A
Matrix: Solid
Analysis Batch: 64079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64143

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1230		mg/Kg		123	70 - 130		
Toluene			0.100	0.1315	*+	mg/Kg		132	70 - 130		
Ethylbenzene			0.100	0.1547	*+	mg/Kg		155	70 - 130		
m-Xylene & p-Xylene			0.200	0.3234	*+	mg/Kg		162	70 - 130		
o-Xylene			0.100	0.1563	*+	mg/Kg		156	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-64143/2-A
Matrix: Solid
Analysis Batch: 64079

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64143

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1041		mg/Kg		104	70 - 130	17	35
Toluene			0.100	0.1134		mg/Kg		113	70 - 130	15	35
Ethylbenzene			0.100	0.1370	*+	mg/Kg		137	70 - 130	12	35
m-Xylene & p-Xylene			0.200	0.2849	*+	mg/Kg		142	70 - 130	13	35
o-Xylene			0.100	0.1392	*+	mg/Kg		139	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: 880-34088-A-1-D MS
Matrix: Solid
Analysis Batch: 64079

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 64143

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0996	0.1109		mg/Kg		111	70 - 130		
Toluene	<0.00199	U *+	0.0996	0.1017		mg/Kg		102	70 - 130		
Ethylbenzene	<0.00199	U *+	0.0996	0.1283		mg/Kg		129	70 - 130		
m-Xylene & p-Xylene	<0.00398	U *+	0.199	0.2438		mg/Kg		122	70 - 130		
o-Xylene	<0.00199	U *+ F1	0.0996	0.1392	F1	mg/Kg		140	70 - 130		

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34088-A-1-D MS
Matrix: Solid
Analysis Batch: 64079

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 64143

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: 880-34088-A-1-E MSD
Matrix: Solid
Analysis Batch: 64079

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 64143

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.09924		mg/Kg		99	70 - 130	11	35
Toluene	<0.00199	U *+	0.100	0.09076		mg/Kg		91	70 - 130	11	35
Ethylbenzene	<0.00199	U *+	0.100	0.1143		mg/Kg		114	70 - 130	12	35
m-Xylene & p-Xylene	<0.00398	U *+	0.200	0.2189		mg/Kg		109	70 - 130	11	35
o-Xylene	<0.00199	U *+ F1	0.100	0.1283		mg/Kg		128	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-64183/5-A
Matrix: Solid
Analysis Batch: 64180

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64183

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/08/23 14:04	10/09/23 03:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/08/23 14:04	10/09/23 03:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/08/23 14:04	10/09/23 03:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/08/23 14:04	10/09/23 03:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/08/23 14:04	10/09/23 03:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/08/23 14:04	10/09/23 03:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	10/08/23 14:04	10/09/23 03:43	1
1,4-Difluorobenzene (Surr)	162	S1+	70 - 130	10/08/23 14:04	10/09/23 03:43	1

Lab Sample ID: LCS 880-64183/1-A
Matrix: Solid
Analysis Batch: 64180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1026		mg/Kg		103	70 - 130
Toluene	0.100	0.09381		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.08302		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1905		mg/Kg		95	70 - 130
o-Xylene	0.100	0.09189		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-64183/1-A
Matrix: Solid
Analysis Batch: 64180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64183

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

Lab Sample ID: LCSD 880-64183/2-A
Matrix: Solid
Analysis Batch: 64180

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64183

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1084		mg/Kg		108	70 - 130	5	35
Toluene			0.100	0.09259		mg/Kg		93	70 - 130	1	35
Ethylbenzene			0.100	0.08064		mg/Kg		81	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1940		mg/Kg		97	70 - 130	2	35
o-Xylene			0.100	0.09413		mg/Kg		94	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-34108-A-1-E MS
Matrix: Solid
Analysis Batch: 64180

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 64183

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0998	0.1114		mg/Kg		112	70 - 130		
Toluene	<0.00200	U	0.0998	0.09356		mg/Kg		94	70 - 130		
Ethylbenzene	<0.00200	U F1	0.0998	0.08438		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1990		mg/Kg		100	70 - 130		
o-Xylene	<0.00200	U	0.0998	0.09653		mg/Kg		97	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: 880-34108-A-1-F MSD
Matrix: Solid
Analysis Batch: 64180

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 64183

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.08473		mg/Kg		85	70 - 130	27	35
Toluene	<0.00200	U	0.0996	0.07547		mg/Kg		76	70 - 130	21	35
Ethylbenzene	<0.00200	U F1	0.0996	0.06364	F1	mg/Kg		64	70 - 130	28	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1501		mg/Kg		75	70 - 130	28	35
o-Xylene	<0.00200	U	0.0996	0.07241		mg/Kg		73	70 - 130	29	35

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

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-64055/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64187 — **Prep Batch: 64055**

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		10/05/23 17:18	10/09/23 09:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/05/23 17:18	10/09/23 09:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/05/23 17:18	10/09/23 09:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*10/05/23 17:18*	*10/09/23 09:00*	*1*
o-Terphenyl	*85*		*70 - 130*	*10/05/23 17:18*	*10/09/23 09:00*	*1*

Lab Sample ID: LCS 880-64055/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64187 — **Prep Batch: 64055**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1196		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	1000	914.2		mg/Kg		91	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*106*		*70 - 130*

Lab Sample ID: LCSD 880-64055/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64187 — **Prep Batch: 64055**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1033		mg/Kg		103	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	1000	1004		mg/Kg		100	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: 890-5407-A-4-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64187 — **Prep Batch: 64055**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F2	997	768.6		mg/Kg		74	70 - 130
Diesel Range Organics (Over C10-C28)	<49.6	U F1	997	507.9	F1	mg/Kg		46	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 890-5407-A-4-C MS
Matrix: Solid
Analysis Batch: 64187

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 64055

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	64	S1-	70 - 130
o-Terphenyl	58	S1-	70 - 130

Lab Sample ID: 890-5407-A-4-D MSD
Matrix: Solid
Analysis Batch: 64187

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 64055

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F2	997	946.0	F2	mg/Kg		92	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	<49.6	U F1	997	612.0	F1	mg/Kg		57	70 - 130	19	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	69	S1-	70 - 130

Lab Sample ID: MB 880-64148/1-A
Matrix: Solid
Analysis Batch: 64170

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64148

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		10/06/23 13:49	10/07/23 19:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/06/23 13:49	10/07/23 19:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/06/23 13:49	10/07/23 19:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	10/06/23 13:49	10/07/23 19:25	1
o-Terphenyl	160	S1+	70 - 130	10/06/23 13:49	10/07/23 19:25	1

Lab Sample ID: LCS 880-64148/2-A
Matrix: Solid
Analysis Batch: 64170

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	966.3		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	927.7		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	105		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-64148/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64170 — **Prep Batch: 64148**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	954.1		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	913.4		mg/Kg		91	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*106*		*70 - 130*

Lab Sample ID: 880-34088-A-8-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64170 — **Prep Batch: 64148**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.5	U F1 F2	998	962.5		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	49.7	F1 F2	998	986.3		mg/Kg		94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: 880-34088-A-8-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64170 — **Prep Batch: 64148**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.5	U F1 F2	998	661.2	F1 F2	mg/Kg		65	70 - 130	37	20
Diesel Range Organics (Over C10-C28)	49.7	F1 F2	998	741.1	F1 F2	mg/Kg		69	70 - 130	28	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64130/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 64309

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/10/23 09:17	1

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-64130/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 64309

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	242.3		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-64130/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 64309

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	242.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-34089-A-3-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 64309

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	100	F1	249	293.1	F1	mg/Kg		77	90 - 110		

Lab Sample ID: 880-34089-A-3-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 64309

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	F1	249	293.1	F1	mg/Kg		77	90 - 110	0	20

Lab Sample ID: MB 880-64131/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 64310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/09/23 22:02	1

Lab Sample ID: LCS 880-64131/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 64310

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	249.8		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-64131/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 64310

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	249.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-34091-3 MS — **Client Sample ID: S-1 (2.0')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 64310

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	4830	F1	2490	8175	F1	mg/Kg		135	90 - 110		

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-34091-3 MSD
Matrix: Solid
Analysis Batch: 64310

Client Sample ID: S-1 (2.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4830	F1	2490	8202	F1	mg/Kg		136	90 - 110	0	20

Lab Sample ID: 880-34091-13 MS
Matrix: Solid
Analysis Batch: 64310

Client Sample ID: S-3 (2.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	124		252	371.2		mg/Kg		98	90 - 110

Lab Sample ID: 880-34091-13 MSD
Matrix: Solid
Analysis Batch: 64310

Client Sample ID: S-3 (2.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	124		252	371.2		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 64079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34091-5	S-1 (4.0')	Total/NA	Solid	8021B	64143
880-34091-10	S-2 (4.0')	Total/NA	Solid	8021B	64143
880-34091-11	S-3 (0-1')	Total/NA	Solid	8021B	64143
880-34091-12	S-3 (1.5')	Total/NA	Solid	8021B	64143
MB 880-64138/5-A	Method Blank	Total/NA	Solid	8021B	64138
MB 880-64143/5-A	Method Blank	Total/NA	Solid	8021B	64143
LCS 880-64143/1-A	Lab Control Sample	Total/NA	Solid	8021B	64143
LCSD 880-64143/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64143
880-34088-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	64143
880-34088-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64143

Prep Batch: 64138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-64138/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 64139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34091-13	S-3 (2.0')	Total/NA	Solid	5035	
MB 880-64139/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64139/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64139/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34086-A-21-B MS	Matrix Spike	Total/NA	Solid	5035	
880-34086-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 64143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34091-5	S-1 (4.0')	Total/NA	Solid	5035	
880-34091-10	S-2 (4.0')	Total/NA	Solid	5035	
880-34091-11	S-3 (0-1')	Total/NA	Solid	5035	
880-34091-12	S-3 (1.5')	Total/NA	Solid	5035	
MB 880-64143/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64143/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64143/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34088-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-34088-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34091-1	S-1 (0-1')	Total/NA	Solid	8021B	64183
880-34091-2	S-1 (1.5')	Total/NA	Solid	8021B	64183
880-34091-3	S-1 (2.0')	Total/NA	Solid	8021B	64183
880-34091-4	S-1 (3.0')	Total/NA	Solid	8021B	64183
880-34091-6	S-2 (0-1')	Total/NA	Solid	8021B	64183
880-34091-7	S-2 (1.5')	Total/NA	Solid	8021B	64183
880-34091-8	S-2 (2.0')	Total/NA	Solid	8021B	64183
880-34091-9	S-2 (3.0')	Total/NA	Solid	8021B	64183
880-34091-13	S-3 (2.0')	Total/NA	Solid	8021B	64139
MB 880-64139/5-A	Method Blank	Total/NA	Solid	8021B	64139
MB 880-64183/5-A	Method Blank	Total/NA	Solid	8021B	64183
LCS 880-64139/1-A	Lab Control Sample	Total/NA	Solid	8021B	64139
LCS 880-64183/1-A	Lab Control Sample	Total/NA	Solid	8021B	64183

QC Association Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 64180 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-64139/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64139
LCSD 880-64183/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64183
880-34086-A-21-B MS	Matrix Spike	Total/NA	Solid	8021B	64139
880-34086-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64139
880-34108-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	64183
880-34108-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64183

Prep Batch: 64183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34091-1	S-1 (0-1')	Total/NA	Solid	5035	
880-34091-2	S-1 (1.5')	Total/NA	Solid	5035	
880-34091-3	S-1 (2.0')	Total/NA	Solid	5035	
880-34091-4	S-1 (3.0')	Total/NA	Solid	5035	
880-34091-6	S-2 (0-1')	Total/NA	Solid	5035	
880-34091-7	S-2 (1.5')	Total/NA	Solid	5035	
880-34091-8	S-2 (2.0')	Total/NA	Solid	5035	
880-34091-9	S-2 (3.0')	Total/NA	Solid	5035	
MB 880-64183/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64183/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64183/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34108-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-34108-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34091-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-34091-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-34091-3	S-1 (2.0')	Total/NA	Solid	Total BTEX	
880-34091-4	S-1 (3.0')	Total/NA	Solid	Total BTEX	
880-34091-5	S-1 (4.0')	Total/NA	Solid	Total BTEX	
880-34091-6	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-34091-7	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-34091-8	S-2 (2.0')	Total/NA	Solid	Total BTEX	
880-34091-9	S-2 (3.0')	Total/NA	Solid	Total BTEX	
880-34091-10	S-2 (4.0')	Total/NA	Solid	Total BTEX	
880-34091-11	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-34091-12	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-34091-13	S-3 (2.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34091-10	S-2 (4.0')	Total/NA	Solid	8015NM Prep	
880-34091-11	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-34091-12	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-34091-13	S-3 (2.0')	Total/NA	Solid	8015NM Prep	
MB 880-64055/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64055/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64055/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5407-A-4-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 64055 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5407-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 64148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34091-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-34091-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-34091-3	S-1 (2.0')	Total/NA	Solid	8015NM Prep	
880-34091-4	S-1 (3.0')	Total/NA	Solid	8015NM Prep	
880-34091-5	S-1 (4.0')	Total/NA	Solid	8015NM Prep	
880-34091-6	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-34091-7	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-34091-8	S-2 (2.0')	Total/NA	Solid	8015NM Prep	
880-34091-9	S-2 (3.0')	Total/NA	Solid	8015NM Prep	
MB 880-64148/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64148/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64148/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34088-A-8-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34088-A-8-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34091-1	S-1 (0-1')	Total/NA	Solid	8015B NM	64148
880-34091-2	S-1 (1.5')	Total/NA	Solid	8015B NM	64148
880-34091-2	S-1 (1.5')	Total/NA	Solid	8015B NM	64148
880-34091-3	S-1 (2.0')	Total/NA	Solid	8015B NM	64148
880-34091-4	S-1 (3.0')	Total/NA	Solid	8015B NM	64148
880-34091-4	S-1 (3.0')	Total/NA	Solid	8015B NM	64148
880-34091-5	S-1 (4.0')	Total/NA	Solid	8015B NM	64148
880-34091-6	S-2 (0-1')	Total/NA	Solid	8015B NM	64148
880-34091-7	S-2 (1.5')	Total/NA	Solid	8015B NM	64148
880-34091-8	S-2 (2.0')	Total/NA	Solid	8015B NM	64148
880-34091-8	S-2 (2.0')	Total/NA	Solid	8015B NM	64148
880-34091-9	S-2 (3.0')	Total/NA	Solid	8015B NM	64148
MB 880-64148/1-A	Method Blank	Total/NA	Solid	8015B NM	64148
LCS 880-64148/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64148
LCSD 880-64148/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64148
880-34088-A-8-E MS	Matrix Spike	Total/NA	Solid	8015B NM	64148
880-34088-A-8-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64148

Analysis Batch: 64187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34091-10	S-2 (4.0')	Total/NA	Solid	8015B NM	64055
880-34091-11	S-3 (0-1')	Total/NA	Solid	8015B NM	64055
880-34091-12	S-3 (1.5')	Total/NA	Solid	8015B NM	64055
880-34091-13	S-3 (2.0')	Total/NA	Solid	8015B NM	64055
MB 880-64055/1-A	Method Blank	Total/NA	Solid	8015B NM	64055
LCS 880-64055/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64055
LCSD 880-64055/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64055
890-5407-A-4-C MS	Matrix Spike	Total/NA	Solid	8015B NM	64055
890-5407-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64055

QC Association Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 64253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34091-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-34091-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-34091-3	S-1 (2.0')	Total/NA	Solid	8015 NM	
880-34091-4	S-1 (3.0')	Total/NA	Solid	8015 NM	
880-34091-5	S-1 (4.0')	Total/NA	Solid	8015 NM	
880-34091-6	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-34091-7	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-34091-8	S-2 (2.0')	Total/NA	Solid	8015 NM	
880-34091-9	S-2 (3.0')	Total/NA	Solid	8015 NM	
880-34091-10	S-2 (4.0')	Total/NA	Solid	8015 NM	
880-34091-11	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-34091-12	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-34091-13	S-3 (2.0')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34091-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-34091-2	S-1 (1.5')	Soluble	Solid	DI Leach	
MB 880-64130/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64130/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64130/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34089-A-3-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-34089-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 64131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34091-3	S-1 (2.0')	Soluble	Solid	DI Leach	
880-34091-4	S-1 (3.0')	Soluble	Solid	DI Leach	
880-34091-5	S-1 (4.0')	Soluble	Solid	DI Leach	
880-34091-6	S-2 (0-1')	Soluble	Solid	DI Leach	
880-34091-7	S-2 (1.5')	Soluble	Solid	DI Leach	
880-34091-8	S-2 (2.0')	Soluble	Solid	DI Leach	
880-34091-9	S-2 (3.0')	Soluble	Solid	DI Leach	
880-34091-10	S-2 (4.0')	Soluble	Solid	DI Leach	
880-34091-11	S-3 (0-1')	Soluble	Solid	DI Leach	
880-34091-12	S-3 (1.5')	Soluble	Solid	DI Leach	
880-34091-13	S-3 (2.0')	Soluble	Solid	DI Leach	
MB 880-64131/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64131/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64131/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34091-3 MS	S-1 (2.0')	Soluble	Solid	DI Leach	
880-34091-3 MSD	S-1 (2.0')	Soluble	Solid	DI Leach	
880-34091-13 MS	S-3 (2.0')	Soluble	Solid	DI Leach	
880-34091-13 MSD	S-3 (2.0')	Soluble	Solid	DI Leach	

Analysis Batch: 64309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34091-1	S-1 (0-1')	Soluble	Solid	300.0	64130
880-34091-2	S-1 (1.5')	Soluble	Solid	300.0	64130

QC Association Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 64309 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-64130/1-A	Method Blank	Soluble	Solid	300.0	64130
LCS 880-64130/2-A	Lab Control Sample	Soluble	Solid	300.0	64130
LCSD 880-64130/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64130
880-34089-A-3-B MS	Matrix Spike	Soluble	Solid	300.0	64130
880-34089-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64130

Analysis Batch: 64310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34091-3	S-1 (2.0')	Soluble	Solid	300.0	64131
880-34091-4	S-1 (3.0')	Soluble	Solid	300.0	64131
880-34091-5	S-1 (4.0')	Soluble	Solid	300.0	64131
880-34091-6	S-2 (0-1')	Soluble	Solid	300.0	64131
880-34091-7	S-2 (1.5')	Soluble	Solid	300.0	64131
880-34091-8	S-2 (2.0')	Soluble	Solid	300.0	64131
880-34091-9	S-2 (3.0')	Soluble	Solid	300.0	64131
880-34091-10	S-2 (4.0')	Soluble	Solid	300.0	64131
880-34091-11	S-3 (0-1')	Soluble	Solid	300.0	64131
880-34091-12	S-3 (1.5')	Soluble	Solid	300.0	64131
880-34091-13	S-3 (2.0')	Soluble	Solid	300.0	64131
MB 880-64131/1-A	Method Blank	Soluble	Solid	300.0	64131
LCS 880-64131/2-A	Lab Control Sample	Soluble	Solid	300.0	64131
LCSD 880-64131/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64131
880-34091-3 MS	S-1 (2.0')	Soluble	Solid	300.0	64131
880-34091-3 MSD	S-1 (2.0')	Soluble	Solid	300.0	64131
880-34091-13 MS	S-3 (2.0')	Soluble	Solid	300.0	64131
880-34091-13 MSD	S-3 (2.0')	Soluble	Solid	300.0	64131

Lab Chronicle

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34091-1
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64183	10/08/23 14:04	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	64180	10/09/23 04:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64267	10/09/23 04:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			64253	10/08/23 02:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	64148	10/06/23 13:49	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	64170	10/08/23 02:47	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	64130	10/06/23 12:04	AG	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	64309	10/10/23 11:39	CH	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-34091-2
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64183	10/08/23 14:04	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	64180	10/09/23 05:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64267	10/09/23 05:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			64253	10/08/23 07:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	64148	10/06/23 13:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64170	10/08/23 01:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	64148	10/06/23 13:49	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	64170	10/08/23 07:22	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	64130	10/06/23 12:04	AG	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	64309	10/10/23 11:44	CH	EET MID

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-34091-3
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64183	10/08/23 14:04	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	64180	10/09/23 05:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64267	10/09/23 05:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			64253	10/08/23 02:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	64148	10/06/23 13:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64170	10/08/23 02:26	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	64131	10/06/23 12:06	AG	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	64310	10/09/23 22:22	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (3.0')

Lab Sample ID: 880-34091-4
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64183	10/08/23 14:04	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	64180	10/09/23 05:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64267	10/09/23 05:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			64253	10/08/23 08:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	64148	10/06/23 13:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64170	10/08/23 02:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	64148	10/06/23 13:49	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	64170	10/08/23 08:06	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	64131	10/06/23 12:06	AG	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	64310	10/09/23 22:42	CH	EET MID

Client Sample ID: S-1 (4.0')

Lab Sample ID: 880-34091-5
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64143	10/06/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64079	10/07/23 23:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64267	10/07/23 23:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			64253	10/08/23 04:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	64148	10/06/23 13:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64170	10/08/23 04:11	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	64131	10/06/23 12:06	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64310	10/09/23 22:48	CH	EET MID

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

Lab Sample ID: 880-34091-6
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64183	10/08/23 14:04	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	64180	10/09/23 06:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64267	10/09/23 06:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			64253	10/08/23 03:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	64148	10/06/23 13:49	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	64170	10/08/23 03:08	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	64131	10/06/23 12:06	AG	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	64310	10/09/23 22:55	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-34091-7
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64183	10/08/23 14:04	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	64180	10/09/23 06:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64267	10/09/23 06:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			64253	10/08/23 03:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	64148	10/06/23 13:49	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	64170	10/08/23 03:29	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	64131	10/06/23 12:06	AG	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	64310	10/09/23 23:02	CH	EET MID

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-34091-8
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64183	10/08/23 14:04	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	64180	10/09/23 06:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64267	10/09/23 06:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			64253	10/08/23 07:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	64148	10/06/23 13:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64170	10/08/23 01:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	64148	10/06/23 13:49	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	64170	10/08/23 07:44	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	64131	10/06/23 12:06	AG	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	64310	10/09/23 23:22	CH	EET MID

Client Sample ID: S-2 (3.0')

Lab Sample ID: 880-34091-9
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64183	10/08/23 14:04	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	64180	10/09/23 07:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64267	10/09/23 07:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			64253	10/08/23 03:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	64148	10/06/23 13:49	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	64170	10/08/23 03:50	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	64131	10/06/23 12:06	AG	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	64310	10/09/23 23:28	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (4.0')

Lab Sample ID: 880-34091-10
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64143	10/06/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64079	10/08/23 00:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64267	10/08/23 00:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			64253	10/09/23 14:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	64055	10/06/23 13:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64187	10/09/23 14:11	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	64131	10/06/23 12:06	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64310	10/09/23 23:35	CH	EET MID

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

Lab Sample ID: 880-34091-11
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64143	10/06/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64079	10/08/23 00:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64267	10/08/23 00:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			64253	10/09/23 14:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	64055	10/06/23 13:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64187	10/09/23 14:33	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	64131	10/06/23 12:06	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64310	10/09/23 23:42	CH	EET MID

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-34091-12
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64143	10/06/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64079	10/08/23 00:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64267	10/08/23 00:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			64253	10/09/23 14:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	64055	10/06/23 13:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64187	10/09/23 14:55	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	64131	10/06/23 12:06	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64310	10/09/23 23:48	CH	EET MID

Client Sample ID: S-3 (2.0')

Lab Sample ID: 880-34091-13
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64139	10/06/23 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64180	10/09/23 00:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64267	10/09/23 00:34	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (2.0')

Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

Lab Sample ID: 880-34091-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			64253	10/09/23 15:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	64055	10/06/23 13:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64187	10/09/23 15:17	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	64131	10/06/23 12:06	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64310	10/09/23 23:55	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34091-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34091-1	S-1 (0-1')	Solid	10/03/23 00:00	10/06/23 10:39
880-34091-2	S-1 (1.5')	Solid	10/03/23 00:00	10/06/23 10:39
880-34091-3	S-1 (2.0')	Solid	10/03/23 00:00	10/06/23 10:39
880-34091-4	S-1 (3.0')	Solid	10/03/23 00:00	10/06/23 10:39
880-34091-5	S-1 (4.0')	Solid	10/03/23 00:00	10/06/23 10:39
880-34091-6	S-2 (0-1')	Solid	10/03/23 00:00	10/06/23 10:39
880-34091-7	S-2 (1.5')	Solid	10/03/23 00:00	10/06/23 10:39
880-34091-8	S-2 (2.0')	Solid	10/03/23 00:00	10/06/23 10:39
880-34091-9	S-2 (3.0')	Solid	10/03/23 00:00	10/06/23 10:39
880-34091-10	S-2 (4.0')	Solid	10/03/23 00:00	10/06/23 10:39
880-34091-11	S-3 (0-1')	Solid	10/03/23 00:00	10/06/23 10:39
880-34091-12	S-3 (1.5')	Solid	10/03/23 00:00	10/06/23 10:39
880-34091-13	S-3 (2.0')	Solid	10/03/23 00:00	10/06/23 10:39

Chain of Custody

880-34091 Chain of Custody

Page 1 of 2

Project Manager:	Conner Moehring	Bill to. (if different)	Carmona Resources
Company Name	Carmona Resources	Company Name	
Address	310 W Wall St Ste 500	Address.	
City, State ZIP	Midland TX 79701	City, State ZIP:	
Phone	432-813-6823	Email:	mcarmona@carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name.	Nocaster 19 Fed 3H (10 01.23)	Turn Around	
Project Number:	2156	☐ Routine ☑ Rush	
Project Location	Lea County New Mexico	Due Date	72 Hrs
Sampler's Name	MM		
PO #			

SAMPLE RECEIPT			
Temp Blank.	Yes (No)	Wet Ice	(Yes) No
Received Intact:	(Yes) No	Thermometer ID	IR6
Cooler Custody Seals.	Yes No (N/A)	Correction Factor:	+.20
Sample Custody Seals.	Yes No (N/A)	Temperature Reading	-2.3
Total Containers.		Corrected Temperature	-2.1

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0
S-1 (0-1')	10/3/2023		X		G	1		X	X	X
S-1 (1 5')	10/3/2023		X		G	1		X	X	X
S-1 (2 0')	10/3/2023		X		G	1		X	X	X
S-1 (3 0')	10/3/2023		X		G	1		X	X	X
S-1 (4 0')	10/3/2023		X		G	1		X	X	X
S-2 (0-1')	10/3/2023		X		G	1		X	X	X
S-2 (1 5')	10/3/2023		X		G	1		X	X	X
S-2 (2 0')	10/3/2023		X		G	1		X	X	X
S-2 (3 0')	10/3/2023		X		G	1		X	X	X
S-2 (4 0')	10/3/2023		X		G	1		X	X	X

Preservative Codes

None NO — DI Water H_2O

Cool Cool — MeOH Me

HCL HC — HNO_3 HN

H_2S0_4. H_2 — NaOH Na

H_3PO_4 HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$. $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Comments

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

Relinquished by (Signature)	Date/Time	Received by: (Signature)	Date/Time
Conner Moehring	10-6-23 1039		

Chain of Custody

Work Order No: Loc: 880 34091

Page 2 of 2

Project Manager	Conner Moehring	Bill to (if different)	Carmona Resources
Company Name	Carmona Resources	Company Name	
Address	310 W Wall St Ste 500	Address	
City, State ZIP	Midland TX 79701	City, State ZIP	
Phone	432-813-6823	Email	mcarmona@carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

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

Deliverables. EDD ☐ ADaPT ☐ Other

Project Name	Nocaster 19 Fed 3H (10 01 23)	Turn Around	
Project Number	2156	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date	72 Hrs
Sampler's Name	MM		
PO #			

SAMPLE RECEIPT				
Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals.	Yes No N/A	Correction Factor		
Sample Custody Seals.	Yes No N/A	Temperature Reading		
Total Containers		Corrected Temperature		
Temp Blank.	Yes No	Wet Ice	Yes No	

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2SO_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
S-3 (0-1')	10/3/2023		X		G	1		X	X	X	
S-3 (1 5')	10/3/2023		X		G	1		X	X	X	
S-3 (2 0')	10/3/2023		X		G	1		X	X	X	

ANALYSIS REQUEST / Parameters

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	10-6-23 1039		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34091-1
SDG Number: Lea County, New Mexico

Login Number: 34091
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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Nocaster 19 Fed 3H (10.01.23)
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34088-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

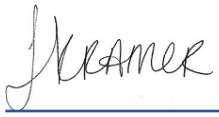
Eurofins Midland

Job Notes

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

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

Authorization



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

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

Job ID: 880-34088-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-34088-1

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

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

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

Receipt
The samples were received on 10/6/2023 10:39 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 -2.1°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-34088-1), H-2 (0-0.5') (880-34088-2), H-3 (0-0.5') (880-34088-3), H-4 (0-0.5') (880-34088-4), H-5 (0-0.5') (880-34088-5), H-6 (0-0.5') (880-34088-6), H-7 (0-0.5') (880-34088-7) and H-8 (0-0.5') (880-34088-8).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-64079 recovered above the upper control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-64143 and analytical batch 880-64079 recovered outside control limits for the following analytes: Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: H-1 (0-0.5') (880-34088-1), H-2 (0-0.5') (880-34088-2), H-4 (0-0.5') (880-34088-4), H-8 (0-0.5') (880-34088-8), (CCV 880-64079/113), (LCS 880-64143/1-A), (LCSD 880-64143/2-A), (880-34088-A-1-D MS) and (880-34088-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-64143 and analytical batch 880-64079 were outside control limits. Non-homogeneity is suspected.

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: H-3 (0-0.5') (880-34088-3), H-4 (0-0.5') (880-34088-4), H-5 (0-0.5') (880-34088-5), H-6 (0-0.5') (880-34088-6) and H-7 (0-0.5') (880-34088-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-64148 and analytical batch 880-64170 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-64148 and analytical batch 880-64170 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the

Case Narrative

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

Job ID: 880-34088-1 (Continued)

Laboratory: Eurofins Midland (Continued)

associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-64130 and analytical batch 880-64309 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34088-1
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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		10/06/23 13:03	10/07/23 19:29	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		10/06/23 13:03	10/07/23 19:29	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		10/06/23 13:03	10/07/23 19:29	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		10/06/23 13:03	10/07/23 19:29	1
o-Xylene	<0.00199	U *+ F1	0.00199		mg/Kg		10/06/23 13:03	10/07/23 19:29	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		10/06/23 13:03	10/07/23 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*10/06/23 13:03*	*10/07/23 19:29*	*1*
1,4-Difluorobenzene (Surr)	*53*	*S1-*	*70 - 130*	*10/06/23 13:03*	*10/07/23 19:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/07/23 19:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			10/07/23 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		10/06/23 13:45	10/07/23 16:36	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		10/06/23 13:45	10/07/23 16:36	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/06/23 13:45	10/07/23 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*10/06/23 13:45*	*10/07/23 16:36*	*1*
o-Terphenyl	*117*		*70 - 130*	*10/06/23 13:45*	*10/07/23 16:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42.3**	**F1**	5.05		mg/Kg			10/10/23 09:32	1

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

Lab Sample ID: 880-34088-2
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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		10/06/23 13:03	10/07/23 19:49	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		10/06/23 13:03	10/07/23 19:49	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		10/06/23 13:03	10/07/23 19:49	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		10/06/23 13:03	10/07/23 19:49	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		10/06/23 13:03	10/07/23 19:49	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		10/06/23 13:03	10/07/23 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*10/06/23 13:03*	*10/07/23 19:49*	*1*
1,4-Difluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*10/06/23 13:03*	*10/07/23 19:49*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34088-2
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/07/23 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			10/07/23 16:57	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	<50.3	U	50.3		mg/Kg		10/06/23 13:45	10/07/23 16:57	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		10/06/23 13:45	10/07/23 16:57	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/06/23 13:45	10/07/23 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*10/06/23 13:45*	*10/07/23 16:57*	*1*
o-Terphenyl	*124*		*70 - 130*	*10/06/23 13:45*	*10/07/23 16:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99.7**		5.03		mg/Kg			10/10/23 09:46	1

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

Lab Sample ID: 880-34088-3
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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		10/06/23 13:03	10/07/23 20:10	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		10/06/23 13:03	10/07/23 20:10	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		10/06/23 13:03	10/07/23 20:10	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		10/06/23 13:03	10/07/23 20:10	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		10/06/23 13:03	10/07/23 20:10	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		10/06/23 13:03	10/07/23 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*10/06/23 13:03*	*10/07/23 20:10*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*10/06/23 13:03*	*10/07/23 20:10*	*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			10/07/23 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			10/07/23 17:18	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	<50.2	U	50.2		mg/Kg		10/06/23 13:45	10/07/23 17:18	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		10/06/23 13:45	10/07/23 17:18	1

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34088-3
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		10/06/23 13:45	10/07/23 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*10/06/23 13:45*	*10/07/23 17:18*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*10/06/23 13:45*	*10/07/23 17:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		5.04		mg/Kg			10/10/23 09:51	1

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

Lab Sample ID: 880-34088-4
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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		10/06/23 13:03	10/07/23 20:30	1
Toluene	<0.00201	U *+	0.00201		mg/Kg		10/06/23 13:03	10/07/23 20:30	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		10/06/23 13:03	10/07/23 20:30	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		10/06/23 13:03	10/07/23 20:30	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		10/06/23 13:03	10/07/23 20:30	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		10/06/23 13:03	10/07/23 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*10/06/23 13:03*	*10/07/23 20:30*	*1*
1,4-Difluorobenzene (Surr)	*55*	*S1-*	*70 - 130*	*10/06/23 13:03*	*10/07/23 20:30*	*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			10/07/23 20:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			10/07/23 17:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		10/06/23 13:45	10/07/23 17:39	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		10/06/23 13:45	10/07/23 17:39	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		10/06/23 13:45	10/07/23 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*10/06/23 13:45*	*10/07/23 17:39*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*10/06/23 13:45*	*10/07/23 17:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99.0**		4.99		mg/Kg			10/10/23 09:56	1

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34088-5
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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		10/06/23 13:03	10/07/23 20:51	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		10/06/23 13:03	10/07/23 20:51	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		10/06/23 13:03	10/07/23 20:51	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401		mg/Kg		10/06/23 13:03	10/07/23 20:51	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		10/06/23 13:03	10/07/23 20:51	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		10/06/23 13:03	10/07/23 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*10/06/23 13:03*	*10/07/23 20:51*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*10/06/23 13:03*	*10/07/23 20:51*	*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			10/07/23 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/07/23 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/06/23 13:45	10/07/23 18:00	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		10/06/23 13:45	10/07/23 18:00	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/06/23 13:45	10/07/23 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*10/06/23 13:45*	*10/07/23 18:00*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*10/06/23 13:45*	*10/07/23 18:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**108**		4.96		mg/Kg			10/10/23 10:01	1

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

Lab Sample ID: 880-34088-6
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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		10/06/23 13:03	10/07/23 21:11	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		10/06/23 13:03	10/07/23 21:11	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		10/06/23 13:03	10/07/23 21:11	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		10/06/23 13:03	10/07/23 21:11	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		10/06/23 13:03	10/07/23 21:11	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		10/06/23 13:03	10/07/23 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*10/06/23 13:03*	*10/07/23 21:11*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*10/06/23 13:03*	*10/07/23 21:11*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34088-6
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/07/23 21:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**483**		49.6		mg/Kg			10/07/23 18:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		10/06/23 13:45	10/07/23 18:43	1
Diesel Range Organics (Over C10-C28)	**429**		49.6		mg/Kg		10/06/23 13:45	10/07/23 18:43	1
Oil Range Organics (Over C28-C36)	**53.8**		49.6		mg/Kg		10/06/23 13:45	10/07/23 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*10/06/23 13:45*	*10/07/23 18:43*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*10/06/23 13:45*	*10/07/23 18:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**83.1**		4.97		mg/Kg			10/10/23 10:16	1

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

Lab Sample ID: 880-34088-7
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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		10/06/23 13:03	10/07/23 21:31	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		10/06/23 13:03	10/07/23 21:31	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		10/06/23 13:03	10/07/23 21:31	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		10/06/23 13:03	10/07/23 21:31	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		10/06/23 13:03	10/07/23 21:31	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		10/06/23 13:03	10/07/23 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*10/06/23 13:03*	*10/07/23 21:31*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*10/06/23 13:03*	*10/07/23 21:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/07/23 21:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			10/07/23 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/06/23 13:45	10/07/23 18:21	1

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34088-7
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		10/06/23 13:45	10/07/23 18:21	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/06/23 13:45	10/07/23 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*10/06/23 13:45*	*10/07/23 18:21*	*1*
o-Terphenyl	*142*	*S1+*	*70 - 130*	*10/06/23 13:45*	*10/07/23 18:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.1**		4.95		mg/Kg			10/10/23 10:21	1

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

Lab Sample ID: 880-34088-8
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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		10/06/23 13:03	10/07/23 21:52	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		10/06/23 13:03	10/07/23 21:52	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		10/06/23 13:03	10/07/23 21:52	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		10/06/23 13:03	10/07/23 21:52	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		10/06/23 13:03	10/07/23 21:52	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		10/06/23 13:03	10/07/23 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*10/06/23 13:03*	*10/07/23 21:52*	*1*
1,4-Difluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*10/06/23 13:03*	*10/07/23 21:52*	*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			10/07/23 21:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**49.7**		49.5		mg/Kg			10/07/23 20:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U F1 F2	49.5		mg/Kg		10/06/23 13:49	10/07/23 20:27	1
Diesel Range Organics (Over C10-C28)	**49.7**	**F1 F2**	49.5		mg/Kg		10/06/23 13:49	10/07/23 20:27	1
OII Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		10/06/23 13:49	10/07/23 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*10/06/23 13:49*	*10/07/23 20:27*	*1*
o-Terphenyl	*124*		*70 - 130*	*10/06/23 13:49*	*10/07/23 20:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**113**		5.02		mg/Kg			10/10/23 10:26	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
880-34088-1	H-1 (0-0.5')	81	53 S1-
880-34088-1 MS	H-1 (0-0.5')	137 S1+	115
880-34088-1 MSD	H-1 (0-0.5')	134 S1+	93
880-34088-2	H-2 (0-0.5')	77	60 S1-
880-34088-3	H-3 (0-0.5')	81	79
880-34088-4	H-4 (0-0.5')	88	55 S1-
880-34088-5	H-5 (0-0.5')	80	79
880-34088-6	H-6 (0-0.5')	83	79
880-34088-7	H-7 (0-0.5')	78	85
880-34088-8	H-8 (0-0.5')	76	68 S1-
LCS 880-64143/1-A	Lab Control Sample	135 S1+	113
LCSD 880-64143/2-A	Lab Control Sample Dup	137 S1+	115
MB 880-64138/5-A	Method Blank	72	94
MB 880-64143/5-A	Method Blank	74	71

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
880-34086-A-21-F MS	Matrix Spike	114	106
880-34086-A-21-G MSD	Matrix Spike Duplicate	97	91
880-34088-1	H-1 (0-0.5')	110	117
880-34088-2	H-2 (0-0.5')	115	124
880-34088-3	H-3 (0-0.5')	130	138 S1+
880-34088-4	H-4 (0-0.5')	129	140 S1+
880-34088-5	H-5 (0-0.5')	124	135 S1+
880-34088-6	H-6 (0-0.5')	136 S1+	140 S1+
880-34088-7	H-7 (0-0.5')	135 S1+	142 S1+
880-34088-8	H-8 (0-0.5')	114	124
880-34088-8 MS	H-8 (0-0.5')	115	108
880-34088-8 MSD	H-8 (0-0.5')	88	85
LCS 880-64147/2-A	Lab Control Sample	93	99
LCS 880-64148/2-A	Lab Control Sample	101	105
LCSD 880-64147/3-A	Lab Control Sample Dup	104	107
LCSD 880-64148/3-A	Lab Control Sample Dup	101	106
MB 880-64147/1-A	Method Blank	70	79
MB 880-64148/1-A	Method Blank	139 S1+	160 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64138/5-A
Matrix: Solid
Analysis Batch: 64079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64138

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/06/23 12:59	10/07/23 08:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/06/23 12:59	10/07/23 08:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/06/23 12:59	10/07/23 08:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/06/23 12:59	10/07/23 08:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/06/23 12:59	10/07/23 08:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/06/23 12:59	10/07/23 08:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*10/06/23 12:59*	*10/07/23 08:33*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*10/06/23 12:59*	*10/07/23 08:33*	*1*

Lab Sample ID: MB 880-64143/5-A
Matrix: Solid
Analysis Batch: 64079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64143

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:03	10/07/23 19:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:03	10/07/23 19:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:03	10/07/23 19:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/06/23 13:03	10/07/23 19:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:03	10/07/23 19:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/06/23 13:03	10/07/23 19:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*10/06/23 13:03*	*10/07/23 19:07*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*10/06/23 13:03*	*10/07/23 19:07*	*1*

Lab Sample ID: LCS 880-64143/1-A
Matrix: Solid
Analysis Batch: 64079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64143

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1230		mg/Kg		123	70 - 130
Toluene	0.100	0.1315	*+	mg/Kg		132	70 - 130
Ethylbenzene	0.100	0.1547	*+	mg/Kg		155	70 - 130
m-Xylene & p-Xylene	0.200	0.3234	*+	mg/Kg		162	70 - 130
o-Xylene	0.100	0.1563	*+	mg/Kg		156	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-64143/2-A
Matrix: Solid
Analysis Batch: 64079

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64143

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1041		mg/Kg		104	70 - 130	17	35

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-64143/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64079 — **Prep Batch: 64143**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1134		mg/Kg		113	70 - 130	15	35
Ethylbenzene			0.100	0.1370	*+	mg/Kg		137	70 - 130	12	35
m-Xylene & p-Xylene			0.200	0.2849	*+	mg/Kg		142	70 - 130	13	35
o-Xylene			0.100	0.1392	*+	mg/Kg		139	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: 880-34088-1 MS — **Client Sample ID: H-1 (0-0.5')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64079 — **Prep Batch: 64143**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1109		mg/Kg		111	70 - 130
Toluene	<0.00199	U *+	0.0996	0.1017		mg/Kg		102	70 - 130
Ethylbenzene	<0.00199	U *+	0.0996	0.1283		mg/Kg		129	70 - 130
m-Xylene & p-Xylene	<0.00398	U *+	0.199	0.2438		mg/Kg		122	70 - 130
o-Xylene	<0.00199	U *+ F1	0.0996	0.1392	F1	mg/Kg		140	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: 880-34088-1 MSD — **Client Sample ID: H-1 (0-0.5')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64079 — **Prep Batch: 64143**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.09924		mg/Kg		99	70 - 130	11	35
Toluene	<0.00199	U *+	0.100	0.09076		mg/Kg		91	70 - 130	11	35
Ethylbenzene	<0.00199	U *+	0.100	0.1143		mg/Kg		114	70 - 130	12	35
m-Xylene & p-Xylene	<0.00398	U *+	0.200	0.2189		mg/Kg		109	70 - 130	11	35
o-Xylene	<0.00199	U *+ F1	0.100	0.1283		mg/Kg		128	70 - 130	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

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

Lab Sample ID: MB 880-64147/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64170 — **Prep Batch: 64147**

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		10/06/23 13:45	10/07/23 08:21	1

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-64147/1-A
Matrix: Solid
Analysis Batch: 64170

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64147

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/06/23 13:45	10/07/23 08:21	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/06/23 13:45	10/07/23 08:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*10/06/23 13:45*	*10/07/23 08:21*	*1*
o-Terphenyl	*79*		*70 - 130*	*10/06/23 13:45*	*10/07/23 08:21*	*1*

Lab Sample ID: LCS 880-64147/2-A
Matrix: Solid
Analysis Batch: 64170

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64147

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	801.5		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	801.1		mg/Kg		80	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: LCSD 880-64147/3-A
Matrix: Solid
Analysis Batch: 64170

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64147

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	874.4		mg/Kg		87	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	882.8		mg/Kg		88	70 - 130	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: 880-34086-A-21-F MS
Matrix: Solid
Analysis Batch: 64170

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 64147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	1010	883.5		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)	56.8		1010	1018		mg/Kg		95	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*106*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34086-A-21-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64170 — **Prep Batch: 64147**

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	<50.4	U	1010	782.1		mg/Kg		75	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	56.8		1010	887.8		mg/Kg		82	70 - 130	14	20

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

Lab Sample ID: MB 880-64148/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64170 — **Prep Batch: 64148**

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		10/06/23 13:49	10/07/23 19:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/06/23 13:49	10/07/23 19:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/06/23 13:49	10/07/23 19:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*10/06/23 13:49*	*10/07/23 19:25*	*1*
o-Terphenyl	*160*	*S1+*	*70 - 130*	*10/06/23 13:49*	*10/07/23 19:25*	*1*

Lab Sample ID: LCS 880-64148/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64170 — **Prep Batch: 64148**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	966.3		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	927.7		mg/Kg		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: LCSD 880-64148/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64170 — **Prep Batch: 64148**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	954.1		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	913.4		mg/Kg		91	70 - 130	2	20

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-64148/3-A
Matrix: Solid
Analysis Batch: 64170

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64148

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: 880-34088-8 MS
Matrix: Solid
Analysis Batch: 64170

Client Sample ID: H-8 (0-0.5')
Prep Type: Total/NA
Prep Batch: 64148

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.5	U F1 F2	998	962.5		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	49.7	F1 F2	998	986.3		mg/Kg		94	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 880-34088-8 MSD
Matrix: Solid
Analysis Batch: 64170

Client Sample ID: H-8 (0-0.5')
Prep Type: Total/NA
Prep Batch: 64148

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.5	U F1 F2	998	661.2	F1 F2	mg/Kg		65	70 - 130	37	20
Diesel Range Organics (Over C10-C28)	49.7	F1 F2	998	741.1	F1 F2	mg/Kg		69	70 - 130	28	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	85		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64130/1-A
Matrix: Solid
Analysis Batch: 64309

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			10/10/23 09:17	1

Lab Sample ID: LCS 880-64130/2-A
Matrix: Solid
Analysis Batch: 64309

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.3		mg/Kg		97	90 - 110

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-64130/3-A
Matrix: Solid
Analysis Batch: 64309

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	242.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-34088-1 MS
Matrix: Solid
Analysis Batch: 64309

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	42.3	F1	253	366.2	F1	mg/Kg		128	90 - 110		

Lab Sample ID: 880-34088-1 MSD
Matrix: Solid
Analysis Batch: 64309

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	42.3	F1	253	365.3	F1	mg/Kg		128	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 64079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34088-1	H-1 (0-0.5')	Total/NA	Solid	8021B	64143
880-34088-2	H-2 (0-0.5')	Total/NA	Solid	8021B	64143
880-34088-3	H-3 (0-0.5')	Total/NA	Solid	8021B	64143
880-34088-4	H-4 (0-0.5')	Total/NA	Solid	8021B	64143
880-34088-5	H-5 (0-0.5')	Total/NA	Solid	8021B	64143
880-34088-6	H-6 (0-0.5')	Total/NA	Solid	8021B	64143
880-34088-7	H-7 (0-0.5')	Total/NA	Solid	8021B	64143
880-34088-8	H-8 (0-0.5')	Total/NA	Solid	8021B	64143
MB 880-64138/5-A	Method Blank	Total/NA	Solid	8021B	64138
MB 880-64143/5-A	Method Blank	Total/NA	Solid	8021B	64143
LCS 880-64143/1-A	Lab Control Sample	Total/NA	Solid	8021B	64143
LCSD 880-64143/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64143
880-34088-1 MS	H-1 (0-0.5')	Total/NA	Solid	8021B	64143
880-34088-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8021B	64143

Prep Batch: 64138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-64138/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 64143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34088-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-34088-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-34088-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-34088-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-34088-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-34088-6	H-6 (0-0.5')	Total/NA	Solid	5035	
880-34088-7	H-7 (0-0.5')	Total/NA	Solid	5035	
880-34088-8	H-8 (0-0.5')	Total/NA	Solid	5035	
MB 880-64143/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64143/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64143/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34088-1 MS	H-1 (0-0.5')	Total/NA	Solid	5035	
880-34088-1 MSD	H-1 (0-0.5')	Total/NA	Solid	5035	

Analysis Batch: 64266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34088-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-34088-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-34088-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-34088-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-34088-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-34088-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	
880-34088-7	H-7 (0-0.5')	Total/NA	Solid	Total BTEX	
880-34088-8	H-8 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34088-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 64147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34088-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-34088-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-34088-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-34088-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-34088-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-34088-7	H-7 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-64147/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64147/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64147/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34086-A-21-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34086-A-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 64148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34088-8	H-8 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-64148/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64148/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64148/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34088-8 MS	H-8 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-34088-8 MSD	H-8 (0-0.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34088-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	64147
880-34088-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	64147
880-34088-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	64147
880-34088-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	64147
880-34088-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	64147
880-34088-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	64147
880-34088-7	H-7 (0-0.5')	Total/NA	Solid	8015B NM	64147
880-34088-8	H-8 (0-0.5')	Total/NA	Solid	8015B NM	64148
MB 880-64147/1-A	Method Blank	Total/NA	Solid	8015B NM	64147
MB 880-64148/1-A	Method Blank	Total/NA	Solid	8015B NM	64148
LCS 880-64147/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64147
LCS 880-64148/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64148
LCSD 880-64147/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64147
LCSD 880-64148/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64148
880-34086-A-21-F MS	Matrix Spike	Total/NA	Solid	8015B NM	64147
880-34086-A-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64147
880-34088-8 MS	H-8 (0-0.5')	Total/NA	Solid	8015B NM	64148
880-34088-8 MSD	H-8 (0-0.5')	Total/NA	Solid	8015B NM	64148

Analysis Batch: 64250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34088-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-34088-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-34088-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-34088-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-34088-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-34088-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	
880-34088-7	H-7 (0-0.5')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 64250 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34088-8	H-8 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34088-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-34088-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-34088-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-34088-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-34088-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-34088-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
880-34088-7	H-7 (0-0.5')	Soluble	Solid	DI Leach	
880-34088-8	H-8 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-64130/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64130/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64130/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34088-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-34088-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 64309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34088-1	H-1 (0-0.5')	Soluble	Solid	300.0	64130
880-34088-2	H-2 (0-0.5')	Soluble	Solid	300.0	64130
880-34088-3	H-3 (0-0.5')	Soluble	Solid	300.0	64130
880-34088-4	H-4 (0-0.5')	Soluble	Solid	300.0	64130
880-34088-5	H-5 (0-0.5')	Soluble	Solid	300.0	64130
880-34088-6	H-6 (0-0.5')	Soluble	Solid	300.0	64130
880-34088-7	H-7 (0-0.5')	Soluble	Solid	300.0	64130
880-34088-8	H-8 (0-0.5')	Soluble	Solid	300.0	64130
MB 880-64130/1-A	Method Blank	Soluble	Solid	300.0	64130
LCS 880-64130/2-A	Lab Control Sample	Soluble	Solid	300.0	64130
LCSD 880-64130/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64130
880-34088-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	64130
880-34088-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	64130

Lab Chronicle

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34088-1
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64143	10/06/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64079	10/07/23 19:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64266	10/07/23 19:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			64250	10/07/23 16:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	64147	10/06/23 13:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64170	10/07/23 16:36	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	64130	10/06/23 12:04	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64309	10/10/23 09:32	CH	EET MID

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

Lab Sample ID: 880-34088-2
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64143	10/06/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64079	10/07/23 19:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64266	10/07/23 19:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			64250	10/07/23 16:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	64147	10/06/23 13:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64170	10/07/23 16:57	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	64130	10/06/23 12:04	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64309	10/10/23 09:46	CH	EET MID

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

Lab Sample ID: 880-34088-3
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64143	10/06/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64079	10/07/23 20:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64266	10/07/23 20:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			64250	10/07/23 17:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	64147	10/06/23 13:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64170	10/07/23 17:18	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	64130	10/06/23 12:04	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64309	10/10/23 09:51	CH	EET MID

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

Lab Sample ID: 880-34088-4
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64143	10/06/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64079	10/07/23 20:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64266	10/07/23 20:30	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34088-4
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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			64250	10/07/23 17:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	64147	10/06/23 13:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64170	10/07/23 17:39	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	64130	10/06/23 12:04	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64309	10/10/23 09:56	CH	EET MID

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

Lab Sample ID: 880-34088-5
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64143	10/06/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64079	10/07/23 20:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64266	10/07/23 20:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			64250	10/07/23 18:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	64147	10/06/23 13:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64170	10/07/23 18:00	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	64130	10/06/23 12:04	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64309	10/10/23 10:01	CH	EET MID

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

Lab Sample ID: 880-34088-6
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64143	10/06/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64079	10/07/23 21:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64266	10/07/23 21:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			64250	10/07/23 18:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	64147	10/06/23 13:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64170	10/07/23 18:43	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	64130	10/06/23 12:04	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64309	10/10/23 10:16	CH	EET MID

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

Lab Sample ID: 880-34088-7
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64143	10/06/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64079	10/07/23 21:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64266	10/07/23 21:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			64250	10/07/23 18:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	64147	10/06/23 13:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64170	10/07/23 18:21	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34088-7
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	64130	10/06/23 12:04	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64309	10/10/23 10:21	CH	EET MID

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

Lab Sample ID: 880-34088-8
Matrix: Solid
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

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	64143	10/06/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64079	10/07/23 21:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64266	10/07/23 21:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			64250	10/07/23 20:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	64148	10/06/23 13:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64170	10/07/23 20:27	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	64130	10/06/23 12:04	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64309	10/10/23 10:26	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Job ID: 880-34088-1
Project/Site: Nocaster 19 Fed 3H (10.01.23)
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34088-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34088-1	H-1 (0-0.5')	Solid	10/03/23 00:00	10/06/23 10:39
880-34088-2	H-2 (0-0.5')	Solid	10/03/23 00:00	10/06/23 10:39
880-34088-3	H-3 (0-0.5')	Solid	10/03/23 00:00	10/06/23 10:39
880-34088-4	H-4 (0-0.5')	Solid	10/03/23 00:00	10/06/23 10:39
880-34088-5	H-5 (0-0.5')	Solid	10/03/23 00:00	10/06/23 10:39
880-34088-6	H-6 (0-0.5')	Solid	10/03/23 00:00	10/06/23 10:39
880-34088-7	H-7 (0-0.5')	Solid	10/03/23 00:00	10/06/23 10:39
880-34088-8	H-8 (0-0.5')	Solid	10/03/23 00:00	10/06/23 10:39

Chain of Custody

880-34088 Chain of Custody

Page 1 of 1

Project Manager	Conner Moehring	Bill to (if different)	Carmona Resources
Company Name	Carmona Resources	Company Name.	
Address	310 W Wall St Ste 500	Address	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone	432-813-6823	Email	mcarmona@carmonaresources com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Nocaster 19 Fed 3H (10 01.23)	Turn Around	
Project Number	2156	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date	72 Hrs
Sampler's Name.	MM		
PO #			

SAMPLE RECEIPT			
Temp Blank.	Yes No	Wet Ice.	Yes No
Received Intact:	Yes No	Thermometer ID	IR8
Cooler Custody Seals.	Yes No N/A	Correction Factor	+20
Sample Custody Seals.	Yes No N/A	Temperature Reading	-2.3
Total Containers.		Corrected Temperature	-2.1

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2S0_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$. $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0
H-1 (0-0 5')	10/3/2023		X		G	1		X	X	X
H-2 (0-0 5')	10/3/2023		X		G	1		X	X	X
H-3 (0-0 5')	10/3/2023		X		G	1		X	X	X
H-4 (0-0 5')	10/3/2023		X		G	1		X	X	X
H-5 (0-0 5')	10/3/2023		X		G	1		X	X	X
H-6 (0-0 5')	10/3/2023		X		G	1		X	X	X
H-7 (0-0 5')	10/3/2023		X		G	1		X	X	X
H-8 (0-0 5')	10/3/2023		X		G	1		X	X	X

Sample Comments

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Amara Urias	10-10-23 1039		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34088-1
SDG Number: Lea County, New Mexico

Login Number: 34088
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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/27/2023 1:24:55 PM

JOB DESCRIPTION

Nocaster 19 Fed 3H (10.01.23)
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34911-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
10/27/2023 1:24:55 PM

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

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Laboratory Job ID: 880-34911-1
SDG: Lea County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
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.

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: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Job ID: 880-34911-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-34911-1

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

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

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

Receipt
The samples were received on 10/26/2023 11:59 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-65594/5-A) and (MB 880-65656/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-2 (5') (880-34911-5), SW-10 (3.5') (880-34911-13) and SW-11 (0.5') (880-34911-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The method blank for preparation batch 880-65656 and analytical batch 880-65592 contained Benzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65666 and analytical batch 880-65591 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-1 (5') (880-34911-1), CS-2 (3.5') (880-34911-2), CS-3 (3.5') (880-34911-3), SW-1 (5') (880-34911-4), SW-2 (5') (880-34911-5), SW-3 (5') (880-34911-6), SW-4 (5') (880-34911-7), SW-5 (3.5') (880-34911-8), SW-6 (3.5') (880-34911-9), SW-7 (2.5') (880-34911-10), SW-8 (2.5') (880-34911-11), SW-10 (3.5') (880-34911-13), SW-11 (0.5') (880-34911-14), (880-34911-A-1-H MS) and (880-34911-A-1-I MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-65666 and analytical batch 880-65591 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-65666 and analytical batch 880-65591 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 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-65591 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-65591/32).

Case Narrative

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Job ID: 880-34911-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Client Sample ID: CS-1 (5')

Lab Sample ID: 880-34911-1
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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		10/26/23 14:04	10/26/23 22:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/26/23 14:04	10/26/23 22:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/26/23 14:04	10/26/23 22:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/26/23 14:04	10/26/23 22:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/26/23 14:04	10/26/23 22:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/26/23 14:04	10/26/23 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*10/26/23 14:04*	*10/26/23 22:11*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*10/26/23 14:04*	*10/26/23 22:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/26/23 22:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/26/23 17:54	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 F1	49.9		mg/Kg		10/26/23 16:51	10/26/23 17:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1 *1	49.9		mg/Kg		10/26/23 16:51	10/26/23 17:54	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/23 16:51	10/26/23 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 17:54*	*1*
o-Terphenyl	*71*		*70 - 130*	*10/26/23 16:51*	*10/26/23 17:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.0**		5.01		mg/Kg			10/26/23 19:33	1

Client Sample ID: CS-2 (3.5')

Lab Sample ID: 880-34911-2
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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		10/26/23 14:04	10/26/23 22:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/26/23 14:04	10/26/23 22:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/26/23 14:04	10/26/23 22:33	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/26/23 14:04	10/26/23 22:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/26/23 14:04	10/26/23 22:33	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/26/23 14:04	10/26/23 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*10/26/23 14:04*	*10/26/23 22:33*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*10/26/23 14:04*	*10/26/23 22:33*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Client Sample ID: CS-2 (3.5')

Lab Sample ID: 880-34911-2
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			10/26/23 22:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			10/26/23 19:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		10/26/23 16:51	10/26/23 19:04	1
Diesel Range Organics (Over C10-C28)	<50.3	U *1	50.3		mg/Kg		10/26/23 16:51	10/26/23 19:04	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/26/23 16:51	10/26/23 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*59*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 19:04*	*1*
o-Terphenyl	*58*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 19:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.0**		5.00		mg/Kg			10/26/23 19:50	1

Client Sample ID: CS-3 (3.5')

Lab Sample ID: 880-34911-3
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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		10/26/23 14:04	10/26/23 22:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/26/23 14:04	10/26/23 22:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/26/23 14:04	10/26/23 22:53	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/26/23 14:04	10/26/23 22:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/26/23 14:04	10/26/23 22:53	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/26/23 14:04	10/26/23 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*10/26/23 14:04*	*10/26/23 22:53*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*10/26/23 14:04*	*10/26/23 22:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/26/23 22:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			10/26/23 19:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/26/23 16:51	10/26/23 19:28	1
Diesel Range Organics (Over C10-C28)	<50.5	U *1	50.5		mg/Kg		10/26/23 16:51	10/26/23 19:28	1

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Client Sample ID: CS-3 (3.5')

Lab Sample ID: 880-34911-3
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/26/23 16:51	10/26/23 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 19:28*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 19:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**41.7**		5.01		mg/Kg			10/26/23 19:56	1

Client Sample ID: SW-1 (5')

Lab Sample ID: 880-34911-4
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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		10/26/23 14:04	10/26/23 23:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/26/23 14:04	10/26/23 23:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/26/23 14:04	10/26/23 23:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/26/23 14:04	10/26/23 23:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/26/23 14:04	10/26/23 23:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/26/23 14:04	10/26/23 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*10/26/23 14:04*	*10/26/23 23:14*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*10/26/23 14:04*	*10/26/23 23:14*	*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			10/26/23 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			10/26/23 19:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		10/26/23 16:51	10/26/23 19:51	1
Diesel Range Organics (Over C10-C28)	<49.6	U *1	49.6		mg/Kg		10/26/23 16:51	10/26/23 19:51	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/26/23 16:51	10/26/23 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*56*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 19:51*	*1*
o-Terphenyl	*57*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 19:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40.1**		4.95		mg/Kg			10/26/23 20:01	1

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Client Sample ID: SW-2 (5')

Lab Sample ID: 880-34911-5
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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		10/26/23 14:04	10/26/23 23:35	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/26/23 14:04	10/26/23 23:35	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/26/23 14:04	10/26/23 23:35	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		10/26/23 14:04	10/26/23 23:35	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/26/23 14:04	10/26/23 23:35	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		10/26/23 14:04	10/26/23 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*10/26/23 14:04*	*10/26/23 23:35*	*1*
1,4-Difluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*10/26/23 14:04*	*10/26/23 23:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			10/26/23 23:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			10/26/23 20:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		10/26/23 16:51	10/26/23 20:15	1
Diesel Range Organics (Over C10-C28)	<49.6	U *1	49.6		mg/Kg		10/26/23 16:51	10/26/23 20:15	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/26/23 16:51	10/26/23 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*61*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 20:15*	*1*
o-Terphenyl	*62*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 20:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**52.5**		4.97		mg/Kg			10/26/23 20:07	1

Client Sample ID: SW-3 (5')

Lab Sample ID: 880-34911-6
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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		10/26/23 14:04	10/26/23 23:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/26/23 14:04	10/26/23 23:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/26/23 14:04	10/26/23 23:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/26/23 14:04	10/26/23 23:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/26/23 14:04	10/26/23 23:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/26/23 14:04	10/26/23 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*10/26/23 14:04*	*10/26/23 23:55*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*10/26/23 14:04*	*10/26/23 23:55*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Client Sample ID: SW-3 (5')

Lab Sample ID: 880-34911-6
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/26/23 23:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			10/26/23 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/26/23 16:51	10/26/23 20:38	1
Diesel Range Organics (Over C10-C28)	<50.5	U *1	50.5		mg/Kg		10/26/23 16:51	10/26/23 20:38	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/26/23 16:51	10/26/23 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*63*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 20:38*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 20:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.8**		5.04		mg/Kg			10/26/23 20:24	1

Client Sample ID: SW-4 (5')

Lab Sample ID: 880-34911-7
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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		10/26/23 14:04	10/27/23 00:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/26/23 14:04	10/27/23 00:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/26/23 14:04	10/27/23 00:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/26/23 14:04	10/27/23 00:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/26/23 14:04	10/27/23 00:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/26/23 14:04	10/27/23 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*10/26/23 14:04*	*10/27/23 00:16*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*10/26/23 14:04*	*10/27/23 00:16*	*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			10/27/23 00:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			10/26/23 21:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/26/23 16:51	10/26/23 21:00	1
Diesel Range Organics (Over C10-C28)	<50.5	U *1	50.5		mg/Kg		10/26/23 16:51	10/26/23 21:00	1

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Client Sample ID: SW-4 (5')

Lab Sample ID: 880-34911-7
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/26/23 16:51	10/26/23 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*61*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 21:00*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 21:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.5**		4.95		mg/Kg			10/26/23 20:30	1

Client Sample ID: SW-5 (3.5')

Lab Sample ID: 880-34911-8
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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		10/26/23 14:04	10/27/23 00:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/26/23 14:04	10/27/23 00:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/26/23 14:04	10/27/23 00:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/26/23 14:04	10/27/23 00:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/26/23 14:04	10/27/23 00:36	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/26/23 14:04	10/27/23 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*10/26/23 14:04*	*10/27/23 00:36*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*10/26/23 14:04*	*10/27/23 00:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/27/23 00:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/26/23 21:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/26/23 16:51	10/26/23 21:23	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		10/26/23 16:51	10/26/23 21:23	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/26/23 16:51	10/26/23 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*61*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 21:23*	*1*
o-Terphenyl	*64*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 21:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59.9**		5.02		mg/Kg			10/26/23 20:35	1

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Client Sample ID: SW-6 (3.5')

Lab Sample ID: 880-34911-9
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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		10/26/23 14:04	10/27/23 00:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/26/23 14:04	10/27/23 00:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/26/23 14:04	10/27/23 00:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/26/23 14:04	10/27/23 00:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/26/23 14:04	10/27/23 00:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/26/23 14:04	10/27/23 00:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*10/26/23 14:04*	*10/27/23 00:57*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*10/26/23 14:04*	*10/27/23 00:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/27/23 00:57	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			10/26/23 21:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/26/23 16:51	10/26/23 21:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		10/26/23 16:51	10/26/23 21:47	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/23 16:51	10/26/23 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*57*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 21:47*	*1*
o-Terphenyl	*59*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 21:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.2**		5.05		mg/Kg			10/26/23 20:41	1

Client Sample ID: SW-7 (2.5')

Lab Sample ID: 880-34911-10
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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		10/26/23 14:04	10/27/23 01:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/26/23 14:04	10/27/23 01:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/26/23 14:04	10/27/23 01:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/26/23 14:04	10/27/23 01:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/26/23 14:04	10/27/23 01:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/26/23 14:04	10/27/23 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*10/26/23 14:04*	*10/27/23 01:17*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*10/26/23 14:04*	*10/27/23 01:17*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Client Sample ID: SW-7 (2.5')

Lab Sample ID: 880-34911-10
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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			10/27/23 01:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			10/26/23 22:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		10/26/23 16:51	10/26/23 22:12	1
Diesel Range Organics (Over C10-C28)	<49.6	U *1	49.6		mg/Kg		10/26/23 16:51	10/26/23 22:12	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/26/23 16:51	10/26/23 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*60*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 22:12*	*1*
o-Terphenyl	*62*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 22:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.4**		5.05		mg/Kg			10/26/23 20:46	1

Client Sample ID: SW-8 (2.5')

Lab Sample ID: 880-34911-11
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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		10/26/23 14:04	10/27/23 02:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/26/23 14:04	10/27/23 02:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/26/23 14:04	10/27/23 02:39	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/26/23 14:04	10/27/23 02:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/26/23 14:04	10/27/23 02:39	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/26/23 14:04	10/27/23 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*10/26/23 14:04*	*10/27/23 02:39*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*10/26/23 14:04*	*10/27/23 02:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			10/27/23 02:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/26/23 22:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/26/23 16:51	10/26/23 22:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		10/26/23 16:51	10/26/23 22:57	1

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Client Sample ID: SW-8 (2.5')

Lab Sample ID: 880-34911-11
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/26/23 16:51	10/26/23 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*10/26/23 16:51*	*10/26/23 22:57*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 22:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.1**		5.04		mg/Kg			10/26/23 20:52	1

Client Sample ID: SW-9 (2.5')

Lab Sample ID: 880-34911-12
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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		10/26/23 14:04	10/27/23 03:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/26/23 14:04	10/27/23 03:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/26/23 14:04	10/27/23 03:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/26/23 14:04	10/27/23 03:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/26/23 14:04	10/27/23 03:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/26/23 14:04	10/27/23 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*10/26/23 14:04*	*10/27/23 03:01*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*10/26/23 14:04*	*10/27/23 03:01*	*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			10/27/23 03:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			10/26/23 23:20	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	<50.3	U	50.3		mg/Kg		10/26/23 16:51	10/26/23 23:20	1
Diesel Range Organics (Over C10-C28)	<50.3	U *1	50.3		mg/Kg		10/26/23 16:51	10/26/23 23:20	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/26/23 16:51	10/26/23 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*10/26/23 16:51*	*10/26/23 23:20*	*1*
o-Terphenyl	*73*		*70 - 130*	*10/26/23 16:51*	*10/26/23 23:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.9**		4.98		mg/Kg			10/26/23 21:09	1

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Client Sample ID: SW-10 (3.5')

Lab Sample ID: 880-34911-13
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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		10/26/23 14:04	10/27/23 03:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/26/23 14:04	10/27/23 03:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/26/23 14:04	10/27/23 03:22	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/26/23 14:04	10/27/23 03:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/26/23 14:04	10/27/23 03:22	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/26/23 14:04	10/27/23 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*10/26/23 14:04*	*10/27/23 03:22*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*10/26/23 14:04*	*10/27/23 03:22*	*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			10/27/23 03:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			10/26/23 23:45	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	<50.3	U	50.3		mg/Kg		10/26/23 16:51	10/26/23 23:45	1
Diesel Range Organics (Over C10-C28)	<50.3	U *1	50.3		mg/Kg		10/26/23 16:51	10/26/23 23:45	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/26/23 16:51	10/26/23 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*62*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 23:45*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/26/23 23:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42.0**		5.01		mg/Kg			10/26/23 21:15	1

Client Sample ID: SW-11 (0.5')

Lab Sample ID: 880-34911-14
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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		10/26/23 14:04	10/27/23 03:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/26/23 14:04	10/27/23 03:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/26/23 14:04	10/27/23 03:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/26/23 14:04	10/27/23 03:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/26/23 14:04	10/27/23 03:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/26/23 14:04	10/27/23 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*10/26/23 14:04*	*10/27/23 03:42*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*10/26/23 14:04*	*10/27/23 03:42*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Client Sample ID: SW-11 (0.5')

Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

Lab Sample ID: 880-34911-14

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/27/23 03:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			10/27/23 00:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		10/26/23 16:51	10/27/23 00:08	1
Diesel Range Organics (Over C10-C28)	<50.4	U *1	50.4		mg/Kg		10/26/23 16:51	10/27/23 00:08	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		10/26/23 16:51	10/27/23 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*56*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/27/23 00:08*	*1*
o-Terphenyl	*55*	*S1-*	*70 - 130*	*10/26/23 16:51*	*10/27/23 00:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.3**		5.03		mg/Kg			10/26/23 21:32	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-34911-1	CS-1 (5')	71	99
880-34911-1 MS	CS-1 (5')	107	120
880-34911-1 MSD	CS-1 (5')	107	118
880-34911-2	CS-2 (3.5')	89	90
880-34911-3	CS-3 (3.5')	88	85
880-34911-4	SW-1 (5')	92	85
880-34911-5	SW-2 (5')	91	62 S1-
880-34911-6	SW-3 (5')	92	80
880-34911-7	SW-4 (5')	90	78
880-34911-8	SW-5 (3.5')	93	86
880-34911-9	SW-6 (3.5')	90	81
880-34911-10	SW-7 (2.5')	93	74
880-34911-11	SW-8 (2.5')	80	89
880-34911-12	SW-9 (2.5')	81	96
880-34911-13	SW-10 (3.5')	66 S1-	83
880-34911-14	SW-11 (0.5')	61 S1-	108
LCS 880-65656/1-A	Lab Control Sample	118	98
LCSD 880-65656/2-A	Lab Control Sample Dup	115	112
MB 880-65594/5-A	Method Blank	69 S1-	98
MB 880-65656/5-A	Method Blank	69 S1-	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-34911-1	CS-1 (5')	68 S1-	71
880-34911-1 MS	CS-1 (5')	61 S1-	55 S1-
880-34911-1 MSD	CS-1 (5')	60 S1-	54 S1-
880-34911-2	CS-2 (3.5')	59 S1-	58 S1-
880-34911-3	CS-3 (3.5')	68 S1-	69 S1-
880-34911-4	SW-1 (5')	56 S1-	57 S1-
880-34911-5	SW-2 (5')	61 S1-	62 S1-
880-34911-6	SW-3 (5')	63 S1-	65 S1-
880-34911-7	SW-4 (5')	61 S1-	65 S1-
880-34911-8	SW-5 (3.5')	61 S1-	64 S1-
880-34911-9	SW-6 (3.5')	57 S1-	59 S1-
880-34911-10	SW-7 (2.5')	60 S1-	62 S1-
880-34911-11	SW-8 (2.5')	70	69 S1-
880-34911-12	SW-9 (2.5')	70	73
880-34911-13	SW-10 (3.5')	62 S1-	67 S1-
880-34911-14	SW-11 (0.5')	56 S1-	55 S1-
LCS 880-65666/2-A	Lab Control Sample	87	92
LCSD 880-65666/3-A	Lab Control Sample Dup	98	102
MB 880-65666/1-A	Method Blank	132 S1+	147 S1+

Surrogate Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-65594/5-A
Matrix: Solid
Analysis Batch: 65592

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/26/23 08:27	10/26/23 10:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/26/23 08:27	10/26/23 10:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/26/23 08:27	10/26/23 10:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/26/23 08:27	10/26/23 10:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/26/23 08:27	10/26/23 10:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/26/23 08:27	10/26/23 10:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*10/26/23 08:27*	*10/26/23 10:59*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*10/26/23 08:27*	*10/26/23 10:59*	*1*

Lab Sample ID: MB 880-65656/5-A
Matrix: Solid
Analysis Batch: 65592

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/26/23 14:04	10/26/23 21:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/26/23 14:04	10/26/23 21:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/26/23 14:04	10/26/23 21:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/26/23 14:04	10/26/23 21:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/26/23 14:04	10/26/23 21:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/26/23 14:04	10/26/23 21:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*10/26/23 14:04*	*10/26/23 21:52*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/26/23 14:04*	*10/26/23 21:52*	*1*

Lab Sample ID: LCS 880-65656/1-A
Matrix: Solid
Analysis Batch: 65592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08488		mg/Kg		85	70 - 130
Toluene	0.100	0.08721		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.09340		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1984		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09998		mg/Kg		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-65656/2-A
Matrix: Solid
Analysis Batch: 65592

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65656

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09601		mg/Kg		96	70 - 130	12	35

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-65656/2-A
Matrix: Solid
Analysis Batch: 65592

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65656

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09677		mg/Kg		97	70 - 130	10	35
Ethylbenzene			0.100	0.1007		mg/Kg		101	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.2120		mg/Kg		106	70 - 130	7	35
o-Xylene			0.100	0.1043		mg/Kg		104	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-34911-1 MS
Matrix: Solid
Analysis Batch: 65592

Client Sample ID: CS-1 (5')
Prep Type: Total/NA
Prep Batch: 65656

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08568		mg/Kg		86	70 - 130
Toluene	<0.00199	U	0.0996	0.07058		mg/Kg		71	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.07683		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1501		mg/Kg		75	70 - 130
o-Xylene	<0.00199	U	0.0996	0.08187		mg/Kg		82	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*

Lab Sample ID: 880-34911-1 MSD
Matrix: Solid
Analysis Batch: 65592

Client Sample ID: CS-1 (5')
Prep Type: Total/NA
Prep Batch: 65656

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08767		mg/Kg		87	70 - 130	2	35
Toluene	<0.00199	U	0.100	0.07212		mg/Kg		72	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.100	0.07741		mg/Kg		77	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1533		mg/Kg		77	70 - 130	2	35
o-Xylene	<0.00199	U	0.100	0.08453		mg/Kg		84	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*

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

Lab Sample ID: MB 880-65666/1-A
Matrix: Solid
Analysis Batch: 65591

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65666

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		10/26/23 07:30	10/26/23 07:47	1

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-65666/1-A
Matrix: Solid
Analysis Batch: 65591

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/26/23 07:30	10/26/23 07:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/23 07:30	10/26/23 07:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*10/26/23 07:30*	*10/26/23 07:47*	*1*
o-Terphenyl	*147*	*S1+*	*70 - 130*	*10/26/23 07:30*	*10/26/23 07:47*	*1*

Lab Sample ID: LCS 880-65666/2-A
Matrix: Solid
Analysis Batch: 65591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	844.0		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	788.5		mg/Kg		79	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: LCSD 880-65666/3-A
Matrix: Solid
Analysis Batch: 65591

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65666

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	934.4		mg/Kg		93	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	970.9	*1	mg/Kg		97	70 - 130	21	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: 880-34911-1 MS
Matrix: Solid
Analysis Batch: 65591

Client Sample ID: CS-1 (5')
Prep Type: Total/NA
Prep Batch: 65666

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	991	593.7	F1	mg/Kg		58	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1 *1	991	616.4	F1	mg/Kg		62	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*61*	*S1-*	*70 - 130*
o-Terphenyl	*55*	*S1-*	*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34911-1 MSD — **Client Sample ID: CS-1 (5')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65591 — **Prep Batch: 65666**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	991	610.6	F1	mg/Kg		60	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1 *1	991	612.6	F1	mg/Kg		62	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*60*	*S1-*	*70 - 130*
o-Terphenyl	*54*	*S1-*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65654/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 65667

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/26/23 19:16	1

Lab Sample ID: LCS 880-65654/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 65667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.9		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-65654/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 65667

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	247.2		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-34911-1 MS — **Client Sample ID: CS-1 (5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 65667

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	39.0		251	290.8		mg/Kg		101	90 - 110

Lab Sample ID: 880-34911-1 MSD — **Client Sample ID: CS-1 (5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 65667

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	39.0		251	290.6		mg/Kg		100	90 - 110	0	20

QC Sample Results

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-34911-11 MS
Matrix: Solid
Analysis Batch: 65667

Client Sample ID: SW-8 (2.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	46.1		252	290.9		mg/Kg		97	90 - 110		

Lab Sample ID: 880-34911-11 MSD
Matrix: Solid
Analysis Batch: 65667

Client Sample ID: SW-8 (2.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	46.1		252	292.1		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 65592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34911-1	CS-1 (5')	Total/NA	Solid	8021B	65656
880-34911-2	CS-2 (3.5')	Total/NA	Solid	8021B	65656
880-34911-3	CS-3 (3.5')	Total/NA	Solid	8021B	65656
880-34911-4	SW-1 (5')	Total/NA	Solid	8021B	65656
880-34911-5	SW-2 (5')	Total/NA	Solid	8021B	65656
880-34911-6	SW-3 (5')	Total/NA	Solid	8021B	65656
880-34911-7	SW-4 (5')	Total/NA	Solid	8021B	65656
880-34911-8	SW-5 (3.5')	Total/NA	Solid	8021B	65656
880-34911-9	SW-6 (3.5')	Total/NA	Solid	8021B	65656
880-34911-10	SW-7 (2.5')	Total/NA	Solid	8021B	65656
880-34911-11	SW-8 (2.5')	Total/NA	Solid	8021B	65656
880-34911-12	SW-9 (2.5')	Total/NA	Solid	8021B	65656
880-34911-13	SW-10 (3.5')	Total/NA	Solid	8021B	65656
880-34911-14	SW-11 (0.5')	Total/NA	Solid	8021B	65656
MB 880-65594/5-A	Method Blank	Total/NA	Solid	8021B	65594
MB 880-65656/5-A	Method Blank	Total/NA	Solid	8021B	65656
LCS 880-65656/1-A	Lab Control Sample	Total/NA	Solid	8021B	65656
LCSD 880-65656/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65656
880-34911-1 MS	CS-1 (5')	Total/NA	Solid	8021B	65656
880-34911-1 MSD	CS-1 (5')	Total/NA	Solid	8021B	65656

Prep Batch: 65594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-65594/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 65656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34911-1	CS-1 (5')	Total/NA	Solid	5035	
880-34911-2	CS-2 (3.5')	Total/NA	Solid	5035	
880-34911-3	CS-3 (3.5')	Total/NA	Solid	5035	
880-34911-4	SW-1 (5')	Total/NA	Solid	5035	
880-34911-5	SW-2 (5')	Total/NA	Solid	5035	
880-34911-6	SW-3 (5')	Total/NA	Solid	5035	
880-34911-7	SW-4 (5')	Total/NA	Solid	5035	
880-34911-8	SW-5 (3.5')	Total/NA	Solid	5035	
880-34911-9	SW-6 (3.5')	Total/NA	Solid	5035	
880-34911-10	SW-7 (2.5')	Total/NA	Solid	5035	
880-34911-11	SW-8 (2.5')	Total/NA	Solid	5035	
880-34911-12	SW-9 (2.5')	Total/NA	Solid	5035	
880-34911-13	SW-10 (3.5')	Total/NA	Solid	5035	
880-34911-14	SW-11 (0.5')	Total/NA	Solid	5035	
MB 880-65656/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65656/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65656/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34911-1 MS	CS-1 (5')	Total/NA	Solid	5035	
880-34911-1 MSD	CS-1 (5')	Total/NA	Solid	5035	

Analysis Batch: 65714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34911-1	CS-1 (5')	Total/NA	Solid	Total BTEX	
880-34911-2	CS-2 (3.5')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 65714 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34911-3	CS-3 (3.5')	Total/NA	Solid	Total BTEX	
880-34911-4	SW-1 (5')	Total/NA	Solid	Total BTEX	
880-34911-5	SW-2 (5')	Total/NA	Solid	Total BTEX	
880-34911-6	SW-3 (5')	Total/NA	Solid	Total BTEX	
880-34911-7	SW-4 (5')	Total/NA	Solid	Total BTEX	
880-34911-8	SW-5 (3.5')	Total/NA	Solid	Total BTEX	
880-34911-9	SW-6 (3.5')	Total/NA	Solid	Total BTEX	
880-34911-10	SW-7 (2.5')	Total/NA	Solid	Total BTEX	
880-34911-11	SW-8 (2.5')	Total/NA	Solid	Total BTEX	
880-34911-12	SW-9 (2.5')	Total/NA	Solid	Total BTEX	
880-34911-13	SW-10 (3.5')	Total/NA	Solid	Total BTEX	
880-34911-14	SW-11 (0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 65591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34911-1	CS-1 (5')	Total/NA	Solid	8015B NM	65666
880-34911-2	CS-2 (3.5')	Total/NA	Solid	8015B NM	65666
880-34911-3	CS-3 (3.5')	Total/NA	Solid	8015B NM	65666
880-34911-4	SW-1 (5')	Total/NA	Solid	8015B NM	65666
880-34911-5	SW-2 (5')	Total/NA	Solid	8015B NM	65666
880-34911-6	SW-3 (5')	Total/NA	Solid	8015B NM	65666
880-34911-7	SW-4 (5')	Total/NA	Solid	8015B NM	65666
880-34911-8	SW-5 (3.5')	Total/NA	Solid	8015B NM	65666
880-34911-9	SW-6 (3.5')	Total/NA	Solid	8015B NM	65666
880-34911-10	SW-7 (2.5')	Total/NA	Solid	8015B NM	65666
880-34911-11	SW-8 (2.5')	Total/NA	Solid	8015B NM	65666
880-34911-12	SW-9 (2.5')	Total/NA	Solid	8015B NM	65666
880-34911-13	SW-10 (3.5')	Total/NA	Solid	8015B NM	65666
880-34911-14	SW-11 (0.5')	Total/NA	Solid	8015B NM	65666
MB 880-65666/1-A	Method Blank	Total/NA	Solid	8015B NM	65666
LCS 880-65666/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65666
LCSD 880-65666/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65666
880-34911-1 MS	CS-1 (5')	Total/NA	Solid	8015B NM	65666
880-34911-1 MSD	CS-1 (5')	Total/NA	Solid	8015B NM	65666

Prep Batch: 65666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34911-1	CS-1 (5')	Total/NA	Solid	8015NM Prep	
880-34911-2	CS-2 (3.5')	Total/NA	Solid	8015NM Prep	
880-34911-3	CS-3 (3.5')	Total/NA	Solid	8015NM Prep	
880-34911-4	SW-1 (5')	Total/NA	Solid	8015NM Prep	
880-34911-5	SW-2 (5')	Total/NA	Solid	8015NM Prep	
880-34911-6	SW-3 (5')	Total/NA	Solid	8015NM Prep	
880-34911-7	SW-4 (5')	Total/NA	Solid	8015NM Prep	
880-34911-8	SW-5 (3.5')	Total/NA	Solid	8015NM Prep	
880-34911-9	SW-6 (3.5')	Total/NA	Solid	8015NM Prep	
880-34911-10	SW-7 (2.5')	Total/NA	Solid	8015NM Prep	
880-34911-11	SW-8 (2.5')	Total/NA	Solid	8015NM Prep	
880-34911-12	SW-9 (2.5')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 65666 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34911-13	SW-10 (3.5')	Total/NA	Solid	8015NM Prep	
880-34911-14	SW-11 (0.5')	Total/NA	Solid	8015NM Prep	
MB 880-65666/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65666/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65666/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34911-1 MS	CS-1 (5')	Total/NA	Solid	8015NM Prep	
880-34911-1 MSD	CS-1 (5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 65696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34911-1	CS-1 (5')	Total/NA	Solid	8015 NM	
880-34911-2	CS-2 (3.5')	Total/NA	Solid	8015 NM	
880-34911-3	CS-3 (3.5')	Total/NA	Solid	8015 NM	
880-34911-4	SW-1 (5')	Total/NA	Solid	8015 NM	
880-34911-5	SW-2 (5')	Total/NA	Solid	8015 NM	
880-34911-6	SW-3 (5')	Total/NA	Solid	8015 NM	
880-34911-7	SW-4 (5')	Total/NA	Solid	8015 NM	
880-34911-8	SW-5 (3.5')	Total/NA	Solid	8015 NM	
880-34911-9	SW-6 (3.5')	Total/NA	Solid	8015 NM	
880-34911-10	SW-7 (2.5')	Total/NA	Solid	8015 NM	
880-34911-11	SW-8 (2.5')	Total/NA	Solid	8015 NM	
880-34911-12	SW-9 (2.5')	Total/NA	Solid	8015 NM	
880-34911-13	SW-10 (3.5')	Total/NA	Solid	8015 NM	
880-34911-14	SW-11 (0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 65654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34911-1	CS-1 (5')	Soluble	Solid	DI Leach	
880-34911-2	CS-2 (3.5')	Soluble	Solid	DI Leach	
880-34911-3	CS-3 (3.5')	Soluble	Solid	DI Leach	
880-34911-4	SW-1 (5')	Soluble	Solid	DI Leach	
880-34911-5	SW-2 (5')	Soluble	Solid	DI Leach	
880-34911-6	SW-3 (5')	Soluble	Solid	DI Leach	
880-34911-7	SW-4 (5')	Soluble	Solid	DI Leach	
880-34911-8	SW-5 (3.5')	Soluble	Solid	DI Leach	
880-34911-9	SW-6 (3.5')	Soluble	Solid	DI Leach	
880-34911-10	SW-7 (2.5')	Soluble	Solid	DI Leach	
880-34911-11	SW-8 (2.5')	Soluble	Solid	DI Leach	
880-34911-12	SW-9 (2.5')	Soluble	Solid	DI Leach	
880-34911-13	SW-10 (3.5')	Soluble	Solid	DI Leach	
880-34911-14	SW-11 (0.5')	Soluble	Solid	DI Leach	
MB 880-65654/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65654/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65654/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34911-1 MS	CS-1 (5')	Soluble	Solid	DI Leach	
880-34911-1 MSD	CS-1 (5')	Soluble	Solid	DI Leach	
880-34911-11 MS	SW-8 (2.5')	Soluble	Solid	DI Leach	
880-34911-11 MSD	SW-8 (2.5')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

HPLC/IC

Analysis Batch: 65667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34911-1	CS-1 (5')	Soluble	Solid	300.0	65654
880-34911-2	CS-2 (3.5')	Soluble	Solid	300.0	65654
880-34911-3	CS-3 (3.5')	Soluble	Solid	300.0	65654
880-34911-4	SW-1 (5')	Soluble	Solid	300.0	65654
880-34911-5	SW-2 (5')	Soluble	Solid	300.0	65654
880-34911-6	SW-3 (5')	Soluble	Solid	300.0	65654
880-34911-7	SW-4 (5')	Soluble	Solid	300.0	65654
880-34911-8	SW-5 (3.5')	Soluble	Solid	300.0	65654
880-34911-9	SW-6 (3.5')	Soluble	Solid	300.0	65654
880-34911-10	SW-7 (2.5')	Soluble	Solid	300.0	65654
880-34911-11	SW-8 (2.5')	Soluble	Solid	300.0	65654
880-34911-12	SW-9 (2.5')	Soluble	Solid	300.0	65654
880-34911-13	SW-10 (3.5')	Soluble	Solid	300.0	65654
880-34911-14	SW-11 (0.5')	Soluble	Solid	300.0	65654
MB 880-65654/1-A	Method Blank	Soluble	Solid	300.0	65654
LCS 880-65654/2-A	Lab Control Sample	Soluble	Solid	300.0	65654
LCSD 880-65654/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65654
880-34911-1 MS	CS-1 (5')	Soluble	Solid	300.0	65654
880-34911-1 MSD	CS-1 (5')	Soluble	Solid	300.0	65654
880-34911-11 MS	SW-8 (2.5')	Soluble	Solid	300.0	65654
880-34911-11 MSD	SW-8 (2.5')	Soluble	Solid	300.0	65654

Lab Chronicle

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Client Sample ID: CS-1 (5')
Lab Sample ID: 880-34911-1
Date Collected: 10/26/23 00:00
Matrix: Solid
Date Received: 10/26/23 11:59

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	65656	10/26/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65592	10/26/23 22:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65714	10/26/23 22:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			65696	10/26/23 17:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	65666	10/26/23 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65591	10/26/23 17:54	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	65654	10/26/23 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65667	10/26/23 19:33	CH	EET MID

Client Sample ID: CS-2 (3.5')
Lab Sample ID: 880-34911-2
Date Collected: 10/26/23 00:00
Matrix: Solid
Date Received: 10/26/23 11:59

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	65656	10/26/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65592	10/26/23 22:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65714	10/26/23 22:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			65696	10/26/23 19:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	65666	10/26/23 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65591	10/26/23 19:04	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	65654	10/26/23 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65667	10/26/23 19:50	CH	EET MID

Client Sample ID: CS-3 (3.5')
Lab Sample ID: 880-34911-3
Date Collected: 10/26/23 00:00
Matrix: Solid
Date Received: 10/26/23 11:59

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	65656	10/26/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65592	10/26/23 22:53	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65714	10/26/23 22:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			65696	10/26/23 19:28	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	65666	10/26/23 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65591	10/26/23 19:28	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	65654	10/26/23 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65667	10/26/23 19:56	CH	EET MID

Client Sample ID: SW-1 (5')
Lab Sample ID: 880-34911-4
Date Collected: 10/26/23 00:00
Matrix: Solid
Date Received: 10/26/23 11:59

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	65656	10/26/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65592	10/26/23 23:14	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65714	10/26/23 23:14	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Client Sample ID: SW-1 (5')
Lab Sample ID: 880-34911-4
Date Collected: 10/26/23 00:00
Matrix: Solid
Date Received: 10/26/23 11:59

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			65696	10/26/23 19:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	65666	10/26/23 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65591	10/26/23 19:51	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	65654	10/26/23 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65667	10/26/23 20:01	CH	EET MID

Client Sample ID: SW-2 (5')
Lab Sample ID: 880-34911-5
Date Collected: 10/26/23 00:00
Matrix: Solid
Date Received: 10/26/23 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	65656	10/26/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65592	10/26/23 23:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65714	10/26/23 23:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			65696	10/26/23 20:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	65666	10/26/23 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65591	10/26/23 20:15	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	65654	10/26/23 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65667	10/26/23 20:07	CH	EET MID

Client Sample ID: SW-3 (5')
Lab Sample ID: 880-34911-6
Date Collected: 10/26/23 00:00
Matrix: Solid
Date Received: 10/26/23 11:59

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	65656	10/26/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65592	10/26/23 23:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65714	10/26/23 23:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			65696	10/26/23 20:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	65666	10/26/23 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65591	10/26/23 20:38	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	65654	10/26/23 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65667	10/26/23 20:24	CH	EET MID

Client Sample ID: SW-4 (5')
Lab Sample ID: 880-34911-7
Date Collected: 10/26/23 00:00
Matrix: Solid
Date Received: 10/26/23 11:59

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	65656	10/26/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65592	10/27/23 00:16	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65714	10/27/23 00:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			65696	10/26/23 21:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	65666	10/26/23 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65591	10/26/23 21:00	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Client Sample ID: SW-4 (5')

Lab Sample ID: 880-34911-7
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	65654	10/26/23 13:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65667	10/26/23 20:30	CH	EET MID

Client Sample ID: SW-5 (3.5')

Lab Sample ID: 880-34911-8
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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	65656	10/26/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65592	10/27/23 00:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65714	10/27/23 00:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			65696	10/26/23 21:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	65666	10/26/23 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65591	10/26/23 21:23	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	65654	10/26/23 13:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65667	10/26/23 20:35	CH	EET MID

Client Sample ID: SW-6 (3.5')

Lab Sample ID: 880-34911-9
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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	65656	10/26/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65592	10/27/23 00:57	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65714	10/27/23 00:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			65696	10/26/23 21:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	65666	10/26/23 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65591	10/26/23 21:47	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	65654	10/26/23 13:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65667	10/26/23 20:41	CH	EET MID

Client Sample ID: SW-7 (2.5')

Lab Sample ID: 880-34911-10
Matrix: Solid
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

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	65656	10/26/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65592	10/27/23 01:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65714	10/27/23 01:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			65696	10/26/23 22:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	65666	10/26/23 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65591	10/26/23 22:12	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	65654	10/26/23 13:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65667	10/26/23 20:46	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Client Sample ID: SW-8 (2.5')
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

Lab Sample ID: 880-34911-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	65656	10/26/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65592	10/27/23 02:39	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65714	10/27/23 02:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			65696	10/26/23 22:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	65666	10/26/23 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65591	10/26/23 22:57	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	65654	10/26/23 13:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65667	10/26/23 20:52	CH	EET MID

Client Sample ID: SW-9 (2.5')
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

Lab Sample ID: 880-34911-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	65656	10/26/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65592	10/27/23 03:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65714	10/27/23 03:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			65696	10/26/23 23:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	65666	10/26/23 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65591	10/26/23 23:20	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	65654	10/26/23 13:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65667	10/26/23 21:09	CH	EET MID

Client Sample ID: SW-10 (3.5')
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

Lab Sample ID: 880-34911-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	65656	10/26/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65592	10/27/23 03:22	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65714	10/27/23 03:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			65696	10/26/23 23:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	65666	10/26/23 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65591	10/26/23 23:45	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	65654	10/26/23 13:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65667	10/26/23 21:15	CH	EET MID

Client Sample ID: SW-11 (0.5')
Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

Lab Sample ID: 880-34911-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	65656	10/26/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65592	10/27/23 03:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65714	10/27/23 03:42	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Client Sample ID: SW-11 (0.5')

Date Collected: 10/26/23 00:00
Date Received: 10/26/23 11:59

Lab Sample ID: 880-34911-14

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			65696	10/27/23 00:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	65666	10/26/23 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65591	10/27/23 00:08	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	65654	10/26/23 13:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65667	10/26/23 21:32	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Job ID: 880-34911-1
Project/Site: Nocaster 19 Fed 3H (10.01.23)
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Nocaster 19 Fed 3H (10.01.23)

Job ID: 880-34911-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34911-1	CS-1 (5')	Solid	10/26/23 00:00	10/26/23 11:59
880-34911-2	CS-2 (3.5')	Solid	10/26/23 00:00	10/26/23 11:59
880-34911-3	CS-3 (3.5')	Solid	10/26/23 00:00	10/26/23 11:59
880-34911-4	SW-1 (5')	Solid	10/26/23 00:00	10/26/23 11:59
880-34911-5	SW-2 (5')	Solid	10/26/23 00:00	10/26/23 11:59
880-34911-6	SW-3 (5')	Solid	10/26/23 00:00	10/26/23 11:59
880-34911-7	SW-4 (5')	Solid	10/26/23 00:00	10/26/23 11:59
880-34911-8	SW-5 (3.5')	Solid	10/26/23 00:00	10/26/23 11:59
880-34911-9	SW-6 (3.5')	Solid	10/26/23 00:00	10/26/23 11:59
880-34911-10	SW-7 (2.5')	Solid	10/26/23 00:00	10/26/23 11:59
880-34911-11	SW-8 (2.5')	Solid	10/26/23 00:00	10/26/23 11:59
880-34911-12	SW-9 (2.5')	Solid	10/26/23 00:00	10/26/23 11:59
880-34911-13	SW-10 (3.5')	Solid	10/26/23 00:00	10/26/23 11:59
880-34911-14	SW-11 (0.5')	Solid	10/26/23 00:00	10/26/23 11:59

880-34911 Chain of Custody

Page 1 of 2

Project Manager	Conner Moehring	Bill to (if different)	Carmona Resources
Company Name.	Carmona Resources	Company Name:	
Address	310 W Wall St Ste 500	Address	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone.	432-813-6823	Email	mcarmona@carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Nocaster 19 Fed 3H (10.01 23)	Turn Around	
Project Number	2156	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date	24 Hrs
Sampler's Name	MM		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice	Yes (No)
Received Intact:	(Yes) No	Thermometer ID	IR8
Cooler Custody Seals	Yes No (N/A)	Correction Factor	+0.2
Sample Custody Seals.	Yes No (N/A)	Temperature Reading	0.3
Total Containers		Corrected Temperature	0.5

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL. HC; HNO_3 HN; H_2S0_4 H_2; NaOH Na; H_3PO_4. HP; $NaHSO_4$. NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
CS-1 (5')	10/26/2023		X		C	1	X	X	X	
CS-2 (3 5')	10/26/2023		X		C	1	X	X	X	
CS-3 (2 5')	10/26/2023		X		C	1	X	X	X	
SW-1 (5')	10/26/2023		X		C	1	X	X	X	
SW-2 (5')	10/26/2023		X		C	1	X	X	X	
SW-3 (5')	10/26/2023		X		C	1	X	X	X	
SW-4 (5')	10/26/2023		X		C	1	X	X	X	
SW-5 (3 5')	10/26/2023		X		C	1	X	X	X	
SW-6 (3 5')	10/26/2023		X		C	1	X	X	X	
SW-7 (2 5')	10/26/2023		X		C	1	X	X	X	

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	10-26-23 1:59		

Work Order No: 34911

Project Manager	Conner Moehring	Bill to (if different)	Carmona Resources
Company Name.	Carmona Resources	Company Name	
Address.	310 W Wall St Ste 500	Address.	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone	432-813-6823 Email	mcarmona@carmonaresources.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ rownfields ☐ RC ☐ perfund ☐

State of Project:

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

Deliverables. EDD ☐ ADaPT ☐ Other

Project Name	Nocaster 19 Fed 3H (10 01.23)	Turn Around	
Project Number	2156	☐ Routine ☑ Rush	
Project Location	Lea County, New Mexico	Due Date	24 Hrs
Sampler's Name	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank.	(Yes) No	Wet Ice	(Yes) No	
Received Intact:	(Yes) No	Thermometer ID	IR8	
Cooler Custody Seals.	Yes No (N/A)	Correction Factor	0.2	
Sample Custody Seals.	Yes No (N/A)	Temperature Reading	0.3	
Total Containers		Corrected Temperature	0.5	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0
SW-8 (2 5')	10/26/2023		X		C	1	X	X	X
SW-9 (2 5')	10/26/2023		X		C	1	X	X	X
SW-10 (3 5')	10/26/2023		X		C	1	X	X	X
SW-11 (0 5')	10/26/2023		X		C	1	X	X	X

Parameters

ANALYSIS REQUEST

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL. HC HNO_3. HN

H_2S0_4 H_2 NaOH Na

H_3PO_4 HP

$NaHSO_4$. NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Comments

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	10-26-23 11:59		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34911-1
SDG Number: Lea County, New Mexico

Login Number: 34911
List Number: 1
Creator: Teel, Brianna

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	

APPENDIX F

CARMONA RESOURCES

From: Conner Moehring
Sent: Monday, October 23, 2023 5:20 PM
To: eco@slo.state.nm.us
Cc: Laird, Jacob; Esparza, Brittany; Mike Carmona; Devin Dominguez; Clint Merritt
Subject: COG - Nocaster 19 Federal 003H - Sampling Notification

Good Afternoon,

This email is a notification for confirmation sampling for the COG –Nocaster 19 Federal 003H (10.01.23). We will be kicking off Remediation activities tomorrow morning. Sampling is scheduled to begin on Thursday, October 26th, around 8:00 a.m. Mountain Time. Carmona Resources personnel will be on-site to collect the confirmation samples. Once the confirmation samples have been received and all samples are below the regulatory limits. We will reseed the disturbed areas with the appropriate SLO seed mixture. Also attached is the cover page from the arch survey, clearing us to work.

NAPP2328936576

Please call if you have any questions.

Conner R. Moehring
310 West Wall Street, Suite 500
Midland Texas, 79701
M: 432-813-6823
Cmoehring@carmonaresources.com

Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:
(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

(A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
(B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
(C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number: Acknowledgment-Only:

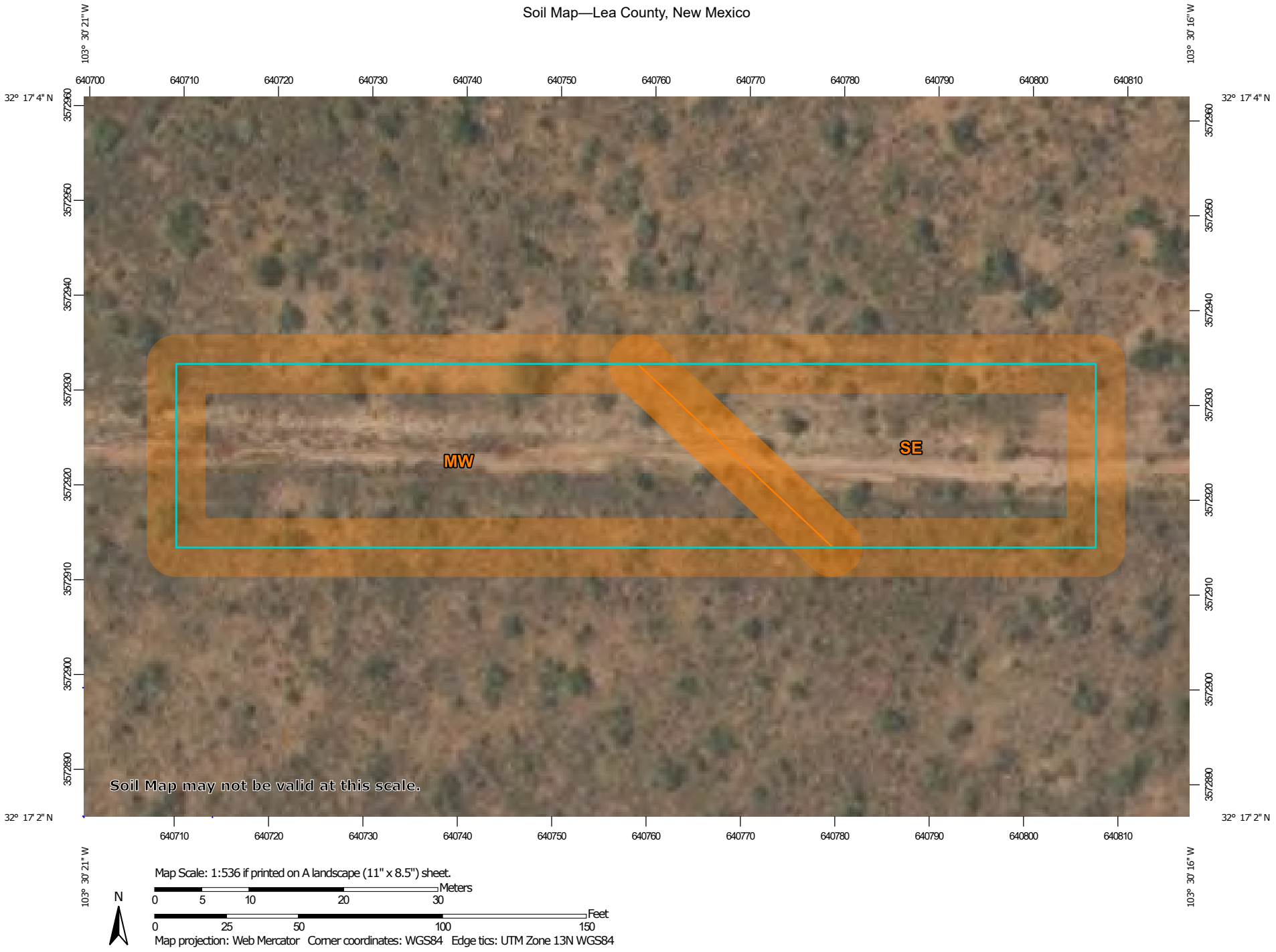
Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

Soil Map—Lea County, New Mexico



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
MW	Mobeetie-Potter association, 1 to 15 percent slopes	0.3	60.8%
SE	Simona fine sandy loam, 0 to 3 percent slopes	0.2	39.2%
Totals for Area of Interest		**0.5**	**100.0%**

Lea County, New Mexico

MW—Mobeetie-Potter association, 1 to 15 percent slopes

Map Unit Setting

National map unit symbol: dmqh
Elevation: 3,000 to 6,500 feet
Mean annual precipitation: 10 to 16 inches
Mean annual air temperature: 48 to 62 degrees F
Frost-free period: 110 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Mobeetie and similar soils: 70 percent
Potter and similar soils: 24 percent
Minor components: 6 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Mobeetie

Setting

Landform: Escarpments, draws
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous sandy alluvium derived from sedimentary rock

Typical profile

A - 0 to 4 inches: fine sandy loam
Bw - 4 to 24 inches: fine sandy loam
Bk - 24 to 60 inches: fine sandy loam

Properties and qualities

Slope: 1 to 10 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: A
Ecological site: R077CY035TX - Sandy 16-21" PZ
Hydric soil rating: No

Description of Potter

Setting

Landform: Escarpments, draws
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous alluvium and/or calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 4 inches: gravelly fine sandy loam
BCk - 4 to 14 inches: extremely cobbly loam

Properties and qualities

Slope: 5 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 70 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Very low (about 0.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: B
Ecological site: R077CY037TX - Very Shallow 16-21" PZ
Hydric soil rating: No

Minor Components

Maljamar

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Stony rock land
Percent of map unit: 1 percent
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Mansker
Percent of map unit: 1 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Ustifluvents
Percent of map unit: 1 percent
Landform: Drainageways
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Concave
Across-slope shape: Linear
Ecological site: R070BC008NM - Draw
Hydric soil rating: Yes

Pyote
Percent of map unit: 1 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

Lea County, New Mexico

SE—Simona fine sandy loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: dmr2
Elevation: 3,000 to 4,200 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 58 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sandy loam
Bk - 8 to 16 inches: gravelly fine sandy loam
Bkm - 16 to 26 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 35 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Very low (about 2.0 inches)

Interpretive groups

Land capability classification (irrigated): 6s

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Minor Components

Kimbrough
Percent of map unit: 8 percent
Ecological site: R077CY037TX - Very Shallow 16-21" PZ
Hydric soil rating: No

Lea
Percent of map unit: 7 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

NMSLO Seed Mix — Loamy (L)

LOAMY (L) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	F
Sand dropseed	VNS, Southern	2.0	S
Alkali sacaton	VNS, Southern	1.0	
Little bluestem	Cimarron, Pastura	1.5	F
Forbs:			
Firewheel (*Gaillardia*)	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
	Total PLS/acre	18.0	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box
VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.

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

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

CONDITIONS

Action 287489

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 287489
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	3/11/2024