

CARMONA RESOURCES



SITE INFORMATION

Closure Report
Black Pearl 1 Federal Com 001H (09.28.23)
Incident # NAPP2328339761
Lea County, New Mexico
Unit C Sec 01 T20S R34E
32.6075°, -103.5161°

Produced Water Release
Point of Release: Corroded Poly Flowline
Release Date: 09.28.23
Volume Released: 0.5046 Barrels of Produced Water
Volume Recovered: 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

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November 01, 2023

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

Re: Closure Report
Black Pearl 1 Federal Com 001H (09.28.23)
Concho Operating, LLC
Incident # NAPP2328339761
Site Location: Unit C, S01, T20S, R34E
(Lat 32.6075°, Long -103.5161°)
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 Black Pearl 1 Federal Com 001H. The site is located at 32.6075°, -103.5161° within Unit C, S01, T20S, 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 September 28, 2023, caused by a hole in a poly flowline due to corrosion. It resulted in the release of approximately zero point five zero four six (0.5046) barrels of produced water, with zero (0) barrels of produced water recovered. The release occurred in the pasture; 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 0.83 miles Northwest of the site in S36, T19S, R34E and was drilled in 2017. The well has a reported depth to groundwater of 100.80 feet below 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.

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 one (1) sample point (S-1) and four (4) horizontal samples (H-1 through H-4) were advanced to depths ranging from the surface to 5' 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

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



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 was achieved for the area of S-1. The areas of H-1 through H-6 were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. 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 18, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of seven (7) confirmation floor samples were collected (CS-1 through CS-7), and four (4) sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

All final confirmation samples were below the reclamation and regulatory requirements for TPH, BTEX, and chloride. Refer to Table 2.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 260 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Reclamation Activities

The site was re-seeded via hand broadcasting on October 23, 2023, to help aid growth. Topsoil matching the surrounding areas was raked back on top of the seed after being broadcast. See Figure 5 for the reclamation area. The seed mixture used was the BLM Seed Mixture 2. See Appendix F for soil survey and map.

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

A handwritten signature in black ink, appearing to read "Mike Carmona".

Mike Carmona
Environmental Manager

A handwritten signature in black ink, appearing to read "Devin Dominguez".

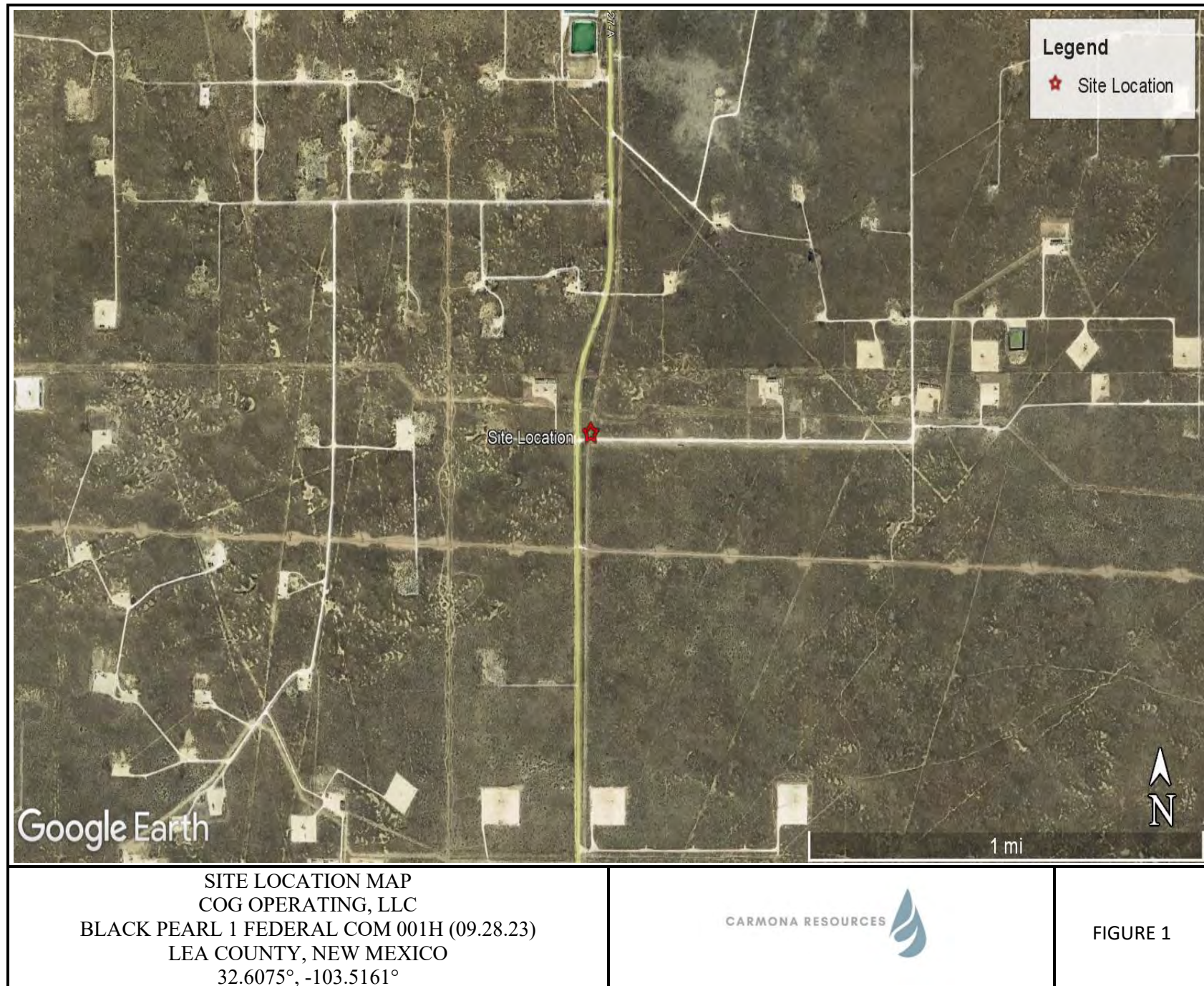
Devin Dominguez
Sr. Project Manager

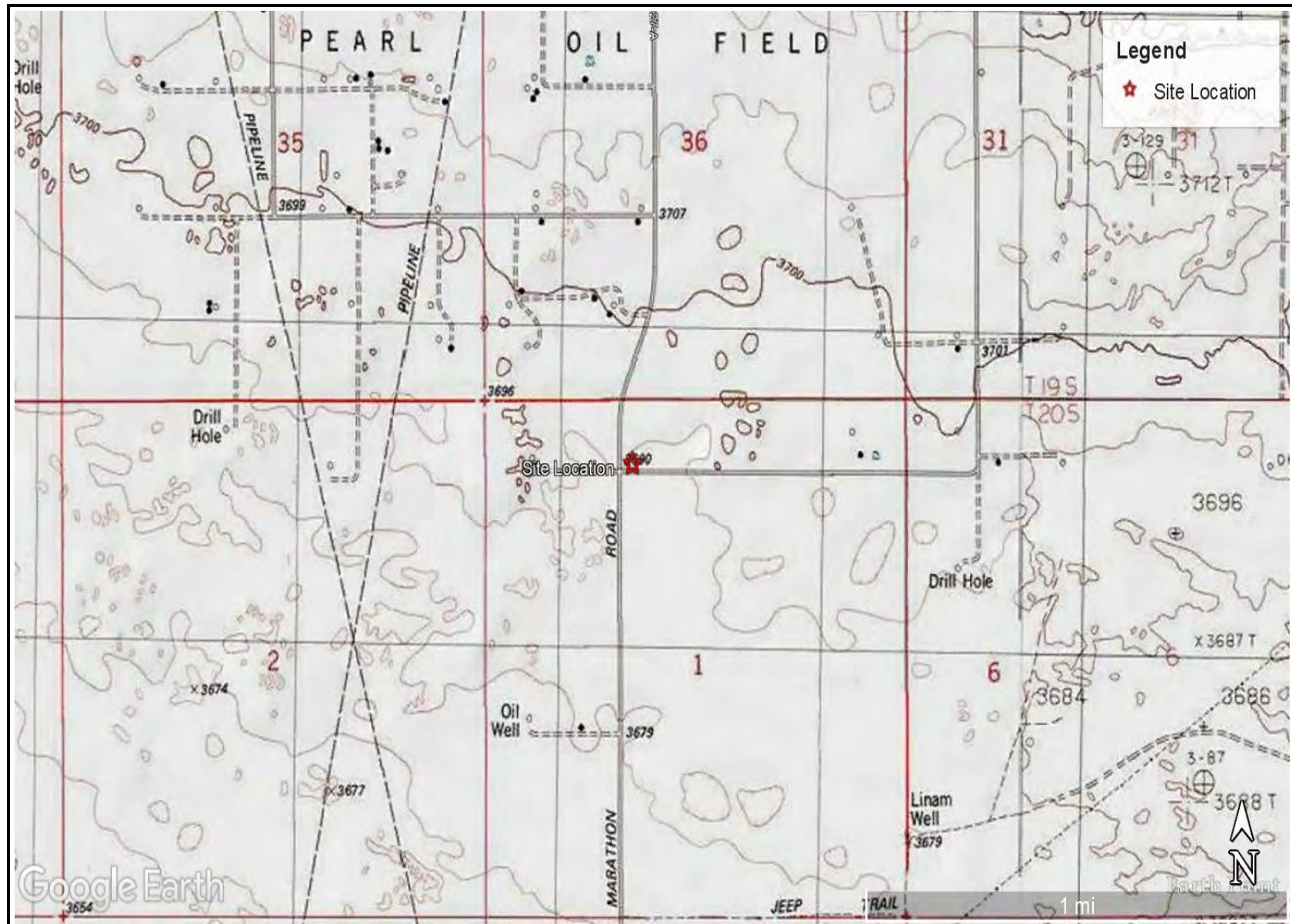
310 West Wall Street, Suite 500
Midland, Texas 79701
432.813.1992

FIGURES

CARMONA RESOURCES



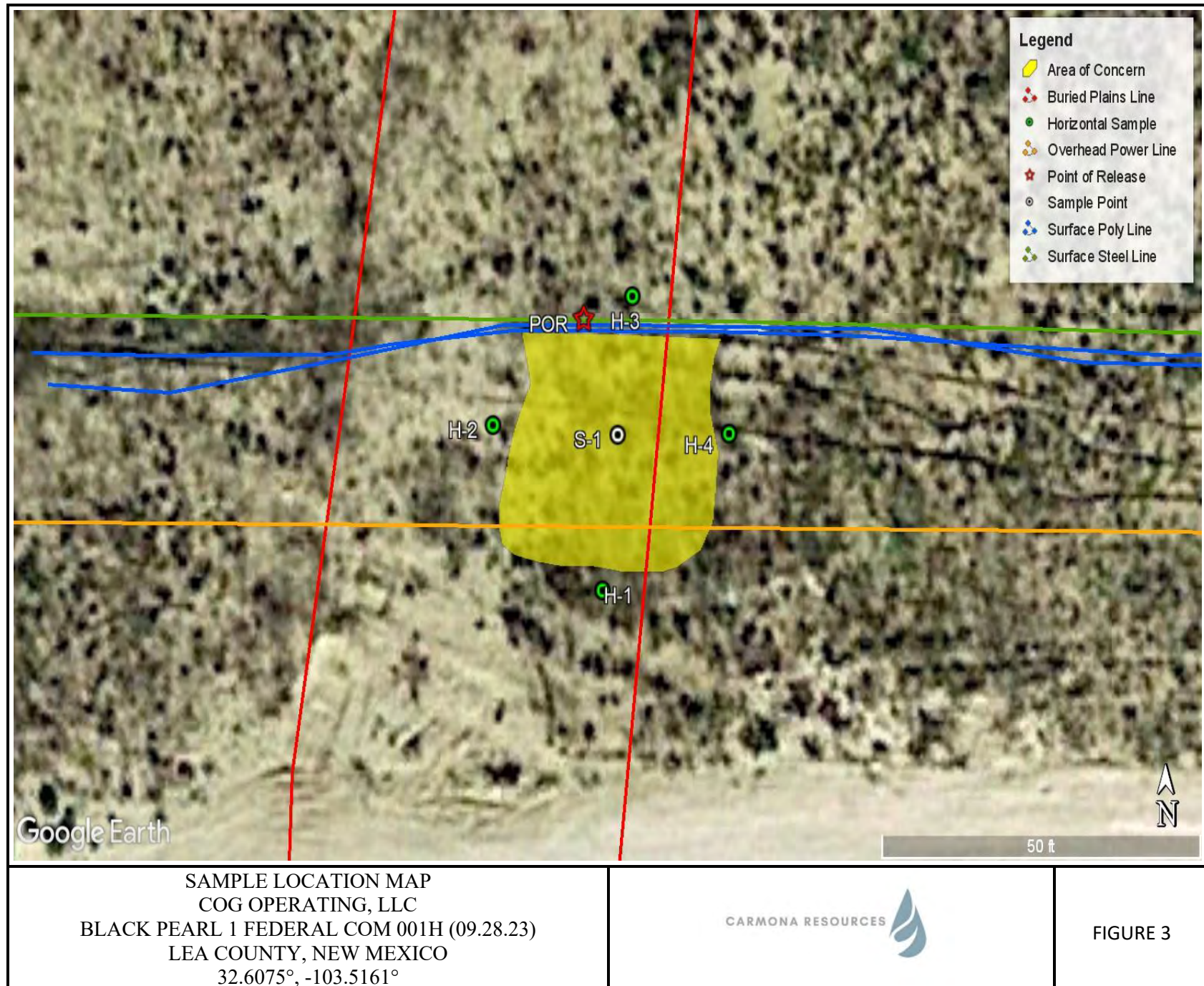


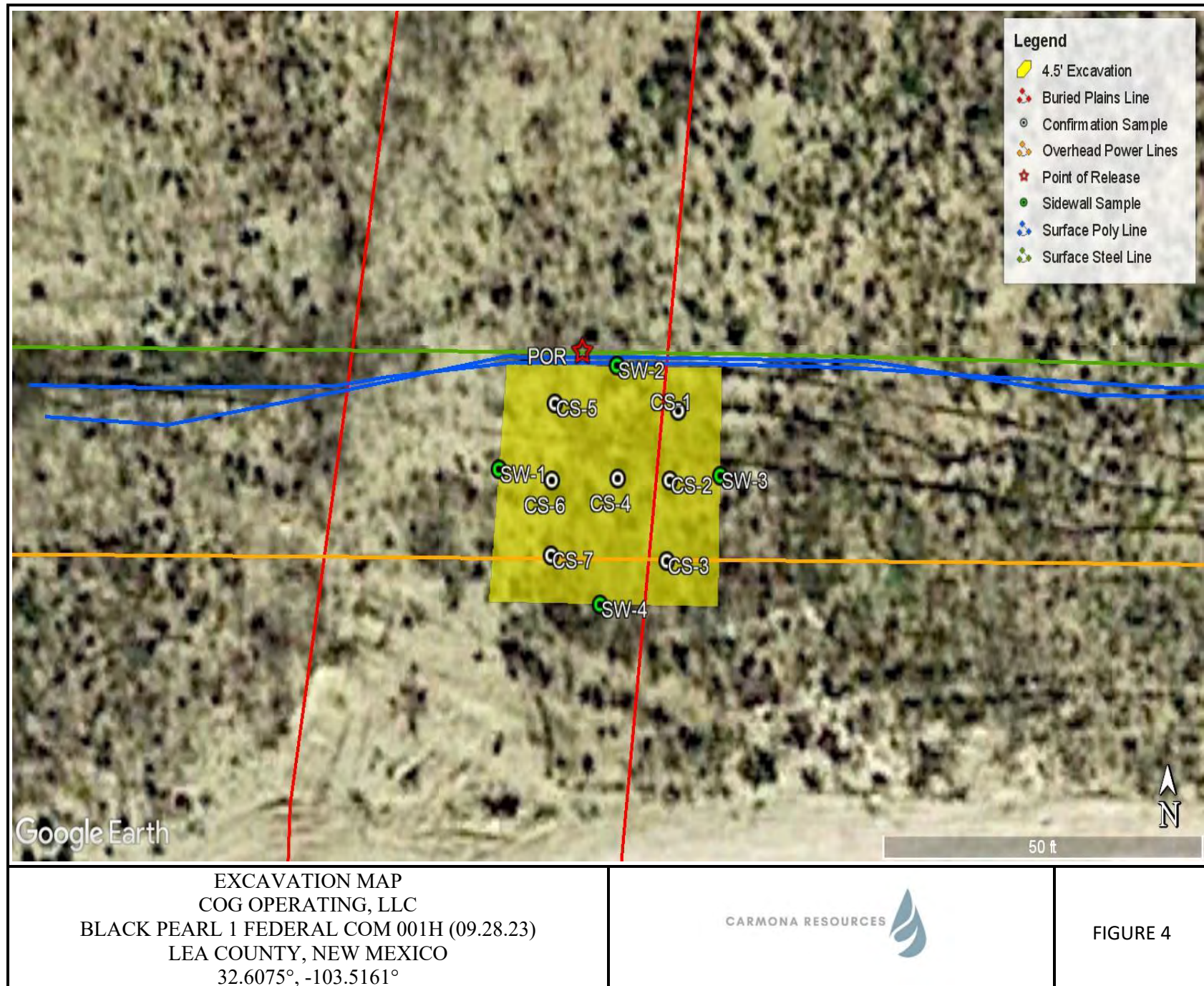


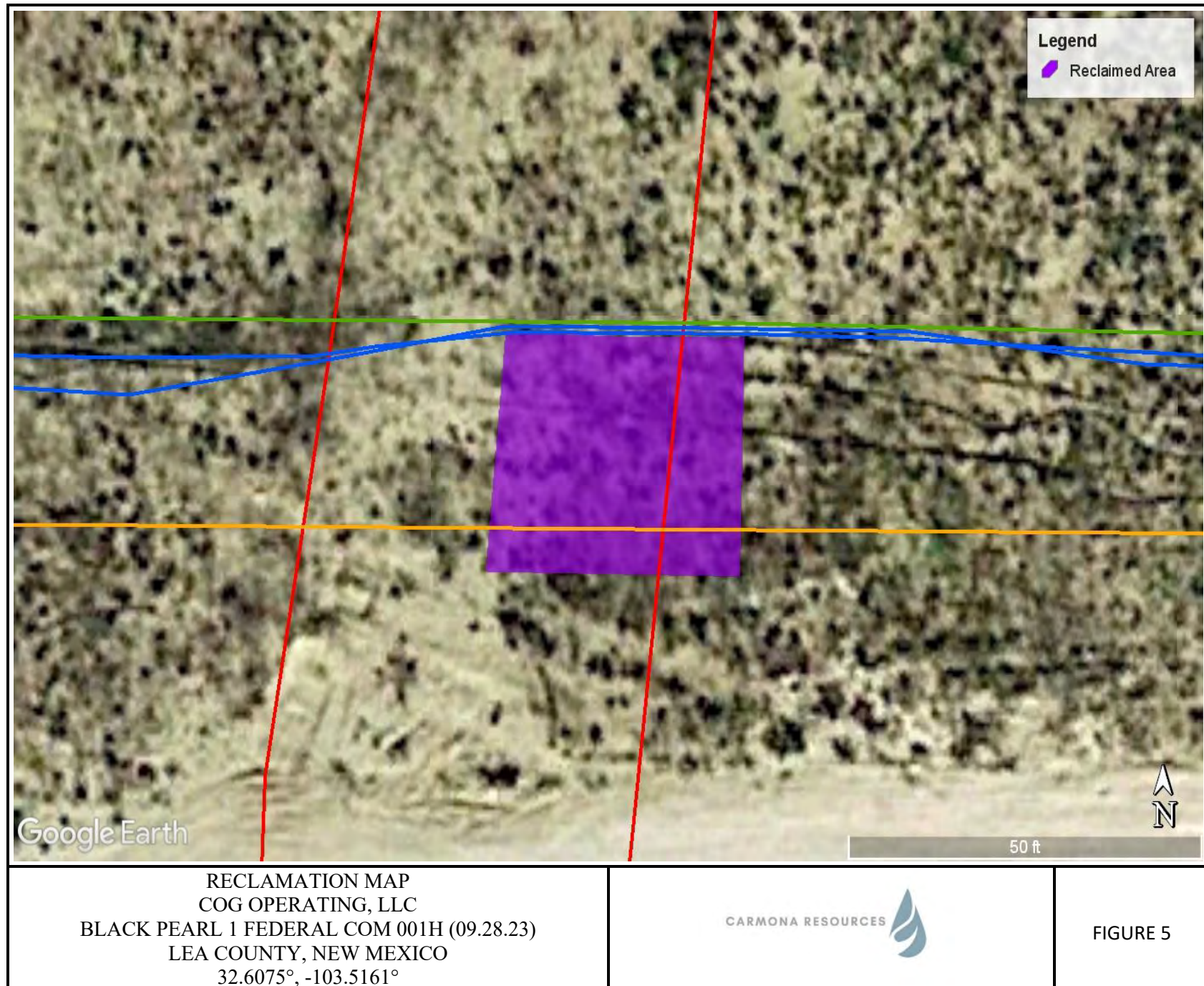
TOPOGRAPHIC MAP
COG OPERATING, LLC
BLACK PEARL 1 FEDERAL COM 001H (09.28.23)
LEA COUNTY, NEW MEXICO
32.6075°, -103.5161°



FIGURE 2







APPENDIX A

CARMONA RESOURCES



Table 1
COG Operating, LLC
Black Pearl 1 Federal Com 001H (09.28.23)
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						
S-1	10/3/2023	0-1	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	989
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	132
	"	2.0	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	110
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	506
	"	4.0	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	10,400
	"	5.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	116
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
Black Pearl 1 Federal Com 001H (09.28.23)
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						
H-1	10/3/2023	0-1	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	89.1
H-2	10/3/2023	0-1	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	111
H-3	10/3/2023	0-1	<50.2	<50.2	<50.2	<50.2	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	100
H-4	10/3/2023	0-1	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	105
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

Table 2
COG Operating, LLC
Black Pearl 1 Federal Com 001H (09.28.23)
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	10/20/2023	4.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	108
CS-2	10/20/2023	4.5	<50.5	<50.5	<50.5	<50.5	0.00325	<0.00200	0.00200	0.00530	0.0106	88.3
CS-3	10/20/2023	4.5	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	69.2
CS-4	10/20/2023	4.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	123
CS-5	10/20/2023	4.5	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	74.0
CS-6	10/20/2023	4.5	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	0.00660	0.00660	93.0
CS-7	10/20/2023	4.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	98.0
SW-1	10/20/2023	4.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	100
SW-2	10/20/2023	4.5	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	139
SW-3	10/20/2023	4.5	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	113
SW-4	10/20/2023	4.5	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	123
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: Black Pearl 1 Federal Com 001H
(09.28.23)

County: Lea County, New Mexico

Description:

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



Photograph No. 2

Facility: Black Pearl 1 Federal Com 001H
(09.28.23)

County: Lea County, New Mexico

Description:

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



Photograph No. 3

Facility: Black Pearl 1 Federal Com 001H
(09.28.23)

County: Lea County, New Mexico

Description:

Seed Mixture.



PHOTOGRAPHIC LOG**Concho Operating, LLC****Photograph No. 4****Facility:** Black Pearl 1 Federal Com 001H
(09.28.23)**County:** Lea County, New Mexico**Description:**

View Northwest, spreading of seed mixture.

**Photograph No. 5****Facility:** Black Pearl 1 Federal Com 001H
(09.28.23)**County:** Lea County, New Mexico**Description:**

View Northeast, reseeded excavation.

**Photograph No. 6****Facility:** Black Pearl 1 Federal Com 001H
(09.28.23)**County:** Lea County, New Mexico**Description:**

View North, reseeded excavation.



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

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 <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name _____	Title: _____
Signature: <u>Battani Espinoza</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: <u>Shelly Wells</u>	Date: <u>10/10/2023</u>

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ 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.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Jacob Laird Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 11/6/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: Jacob Laird Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 11/6/2023

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: Scott Rodgers Date: 01/08/2024

Printed Name: Scott Rodgers Title: Environmental Specialist Adv.

Spill Calculation - Subsurface Spill - Rectangle								Remediation Recommendation	
<i>Received by OCD: 11/6/2023 8:26:34 AM</i>								<i>Page 24 of 133</i>	
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.)	Total Estimated Contaminated Soil, uncompacted, 25% (yd ³ .)	Current Rule of Thumb - RMR Handover Volume, (yd ³ .)
Rectangle A	18.0	18.0	1.0	On-Pad	10.50%	4.81	0.50	1.25	750
Rectangle B						0.00		0.00	
Rectangle C						0.00		0.00	
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:							0.5046	1.25	BU
<i>Released to Imaging: 1/8/2024 3:07:44 PM</i>									

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 274114

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 274114
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

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

Hi Conner,

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: Wednesday, October 18, 2023 2:42 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Mike Carmona <Mcarmona@carmonaresources.com>; Devin Dominguez <Ddominguez@carmonaresources.com>; Clint Merritt <MerrittC@carmonaresources.com>; Laird, Jacob <Jacob.Laird@conocophillips.com>; Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Subject: [EXTERNAL] COG - Black Pearl Fed Com 1H (09.28.23) - Sampling Notification

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

Good Afternoon,

This email is a notification for confirmation sampling for the COG – Black Pearl Fed Com 1H (09.28.23). Sampling is scheduled to begin on Friday, October 20th, around 2:45 p.m. Mountain Time. Carmona Resources personnel will be on-site to collect the confirmation samples.

COG - Black Pearl Fed Com 1H (09.28.23)
Sec 1 T20S R34E Unit C
32.607758, -103.516147
Lea County, New Mexico

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

Legend

 0.50 Mile Radius

 0.83 Miles

 0.99 Miles

 1.08 Miles

 Black Pearl Fed Com 1H (09.28.23)

 NMSEO Water Well

 USGS Water Well



Low Karst

COG Operating

Legend

- Black Pearl Fed Com 1H (09.28.23)
- Low

Black Pearl Fed Com 1H (09.28.23)



1 mi



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 01672 POD1	CP	LE		1	3	1	36	19S	34E	638736	3610009	1329	100		
L 04157	L	LE			3	3	06	20S	35E	640483	3607561*	1743	70	64	6
CP 00683 POD1	CP	LE		3	3	4	25	19S	34E	639530	3610685*	1932	120	28	92
CP 00654 POD1	CP	LE			4	4	12	20S	34E	640103	3605947*	2960	60		
L 08941	L	LE		2	3	3	19	19S	35E	640510	3612523	3959	600	286	314

Average Depth to Water: **126 feet**

Minimum Depth: **28 feet**

Maximum Depth: **286 feet**

Record Count: 5

UTM NAD83 Radius Search (in meters):

Easting (X): 639232

Northing (Y): 3608776

Radius: 4000

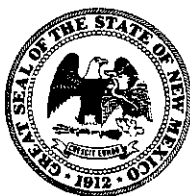
*UTM location was derived from PLSS - see Help

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

10/2/23 4:04 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE DEPARTMENT OFFICE
ROSWELL, NEW MEXICO

2017 SEP -6 PM 4: 05

OSE POD NO. (WELL NO.) POD 1 (Site BL-2)			WELL TAG ID NO. N/A			OSE FILE NO(S). CP-1672		
WELL OWNER NAME(S) Trainer Partners LTD c/o Atkins Engineering Assoc						PHONE (OPTIONAL)		
WELL OWNER MAILING ADDRESS 2904 W. 2nd Street						CITY STATE ZIP Roswell NM 88201		
WELL LOCATION (FROM GPS)	DEGREES 32		MINUTES 37		SECONDS 7.8		N	
	LONGITUDE 103		31		16.2		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								
LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins				NAME OF WELL DRILLING COMPANY Atkins Engineering Associates		
DRILLING STARTED 8/29/2017		DRILLING ENDED 8/29/2017		DEPTH OF COMPLETED WELL (FT) N/A		BORE HOLE DEPTH (FT) 100.80		DEPTH WATER FIRST ENCOUNTERED (FT) Dry
COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT) Dry		
DRILLING FLUID:		☒ AIR ☐ MUD		ADDITIVES - SPECIFY:		Switched to Air Rotary at 44 ft bgs		
DRILLING METHOD:		☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER - SPECIFY:		Hollow Stem Auger (HSA) and Air Rotary				
DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)	
FROM	TO							
-	-	± 6.00	N/A	N/A	N/A	N/A	-	
DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT			
FROM	TO							
0	10	±6.00	Baroid Hole Plug/Bentonite Chips	±2.1	from surface			
10	44	±6.00	Native Fill	±6.7	from surface			
44	100.80	±3.125	Native Fill	±3.6	from surface			

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. CP-1672		POD NO. 1	TRN NO. 610609
LOCATION 19S.34E.36.131		WELL TAG ID NO. —	PAGE 1 OF 2

DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
FROM	TO				
0	9		Sand, medium to coarse grain sand, fine roots, brown, dry	Y ✓ N	
9	19		Sandy loam, fine grain sand, light brown, dry	Y ✓ N	
19	20		Sand, very fine to fine grain sand, caliche streaks, brown, dry	Y ✓ N	
20	20.5		Caliche, tan, dry	Y ✓ N	
20.5	24		Sand, very fine to fine grain sand, caliche streaks, brown, dry	Y ✓ N	
24	29		Sandy loam, fine to medium grain sand, light brown, dry	Y ✓ N	
29	34		Sandy clay, fine grain sand, caliche streaks, brown, hard, dry	Y ✓ N	
34	44		Lean clay, brown, some black mottling, dry	Y ✓ N	
44	48		Clay, brown to red, hard, dry	Y ✓ N	
48	68		Sandy clay, coarse grain sand, 5-10mm rounded gravel, brown to red, hard, dry	Y ✓ N	
68	100.80		Clay, red to brown, hard, dry/*@ 88-93 ft bgs: some caliche streaks	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:				TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
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: Dry. Borehole was not converted to a monitoring well. See attached Plugging Record for details.					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Guadalupe Leyba					
THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:					
SIGNATURE OF DRILLER / PRINT SIGNED NAME			DATE		
Jackie D. Atkins			09/06/2017		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. CP-1672	POD NO. 1	TRN NO. 610609
LOCATION 195.34E.36.131	WELL TAG ID NO. —	PAGE 2 OF 2

Tom Blaine, P.E.
State Engineer



oswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 610609
File Nbr: CP 01672
Well File Nbr: CP 01672 POD1

Sep. 19, 2017

ANDREW MARTIN, ATKINS ENGR ASSOC INC
TRAINER PARTNERS LTD
2904 W 2ND STREET
ROSWELL, NM 88201

Greetings:

The above numbered permit was issued in your name on 08/11/2017.

The Well Record was received in this office on 09/06/2017, stating that it had been completed on 08/29/2017, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 08/31/2018.

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

Sincerely,

A handwritten signature in cursive script, appearing to read "Y Mendiola".

Yolanda Mendiola
(575) 622-6521

drywell

Tom Blaine, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 610609
File Nbr: CP 01672
Well File Nbr: CP 01672 POD1

Sep. 19, 2017

AUBREY DUNN, COMMISSIONER
NM COMMISSIONER OF PUBLIC LAND
PO BOX 1148
SANTA FE, NM 87504-1148

Greetings:

The above numbered permit was issued in your name on 08/11/2017.

The Well Record was received in this office on 09/06/2017, stating that it had been completed on 08/29/2017, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 08/31/2018.

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

Sincerely,

A handwritten signature in cursive script, appearing to read "Y Mendiola".

Yolanda Mendiola
(575) 622-6521

drywell



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

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- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 323536103301101

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

USGS 323536103301101 20S.35E.06.331332

Lea County, New Mexico
Latitude 32°35'50", Longitude 103°30'17" NAD27
Land-surface elevation 3,678.00 feet above NGVD29
The depth of the well is 70 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1961-03-08			D 62610		3619.30	NGVD29	1		Z	
1961-03-08			D 62611		3620.85	NAVD88	1		Z	
1961-03-08			D 72019	58.70			1		Z	
1971-01-21			D 62610		3620.42	NGVD29	1		Z	
1971-01-21			D 62611		3621.97	NAVD88	1		Z	
1971-01-21			D 72019	57.58			1		Z	
1976-02-19			D 62610		3616.76	NGVD29	1		Z	
1976-02-19			D 62611		3618.31	NAVD88	1		Z	
1976-02-19			D 72019	61.24			1		Z	
1986-04-02			D 62610		3621.09	NGVD29	1		Z	
1986-04-02			D 62611		3622.64	NAVD88	1		Z	
1986-04-02			D 72019	56.91			1		Z	
1991-07-03			D 62610		3623.77	NGVD29	1		Z	
1991-07-03			D 62611		3625.32	NAVD88	1		Z	

10/2/23, 5:15 PM

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1991-07-03			D	72019	54.23				1	Z
1996-03-05			D	62610		3621.61	NGVD29		1	S
1996-03-05			D	62611		3623.16	NAVD88		1	S
1996-03-05			D	72019	56.39				1	S

Explanation

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

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[Automated retrievals](#)

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[Data Tips](#)

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=323536103301101&agency_cd=USGS&format=html)



Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2023-10-02 18:15:34 EDT

0.29 0.24 nadww01



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L	04157		3	3	06	20S	35E	640483	3607561*
Driller License: 208		Driller Company:		VAN NOY, W.L.					
Driller Name:									
Drill Start Date: 12/12/1959		Drill Finish Date:		12/13/1959		Plug Date:			
Log File Date: 12/18/1959		PCW Rcv Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 5.00		Depth Well:		70 feet		Depth Water:		64 feet	
Water Bearing Stratifications:		Top	Bottom	Description					
		65	68	Sandstone/Gravel/Conglomerate					
Casing Perforations:		Top	Bottom						
		50	70						

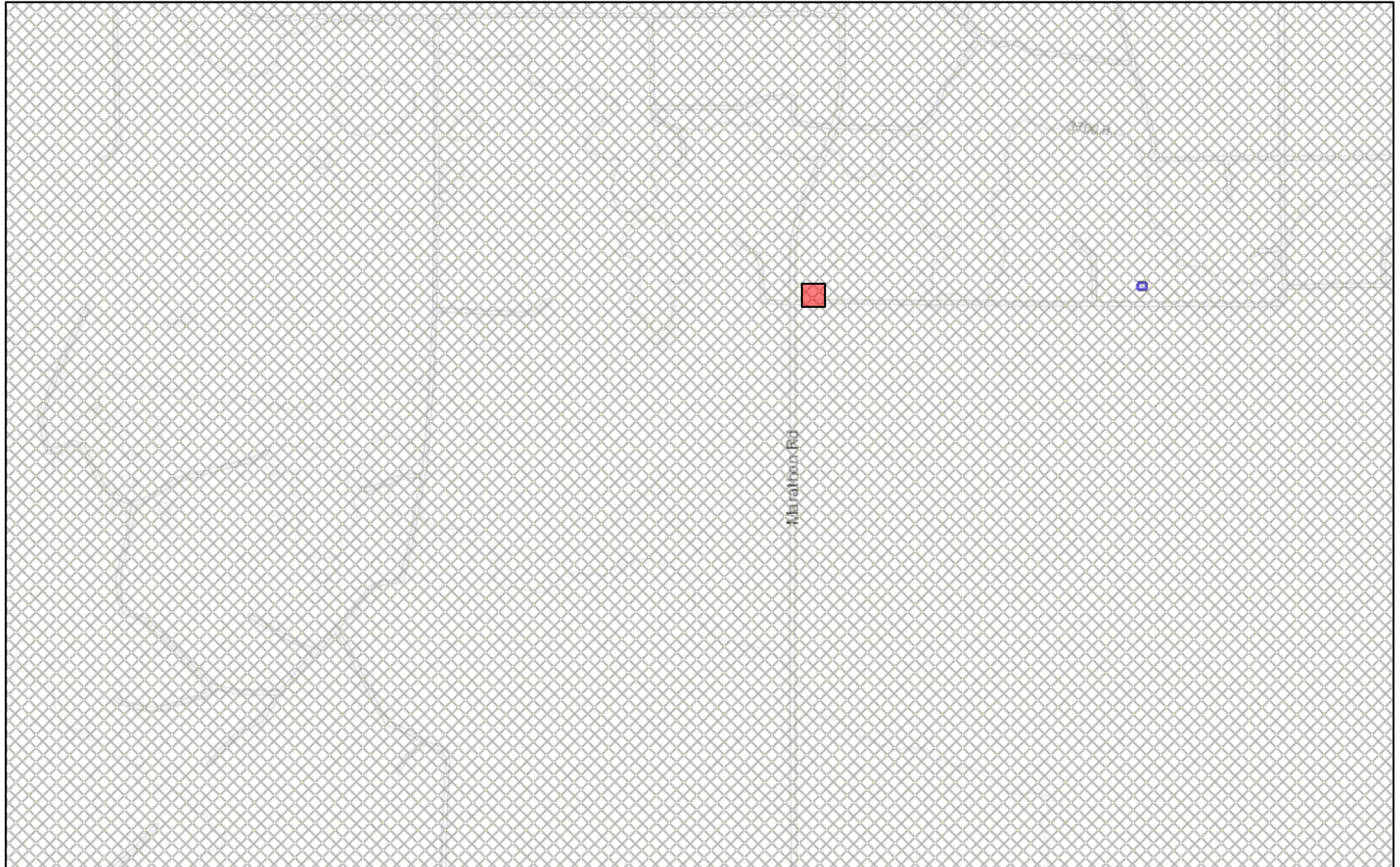
*UTM location was derived from PLSS - see Help

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

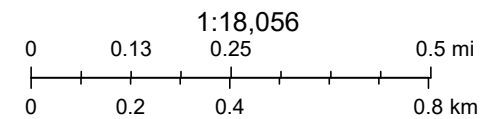
10/2/23 4:10 PM

POINT OF DIVERSION SUMMARY

New Mexico NFHL Data



October 2, 2023



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

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

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

APPENDIX E

CARMONA RESOURCES





Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/10/2023 4:19:18 PM

JOB DESCRIPTION

Black Pearl Fed Com 1H (09.28.23)
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34090-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
10/10/2023 4:19:18 PM

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

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Laboratory Job ID: 880-34090-1
SDG: Lea County, New Mexico

Table of Contents

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

Case Narrative

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
SDG: Lea County, New Mexico

Job ID: 880-34090-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-34090-1**

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 surrogate recovery for the blank associated with preparation batch 880-64139 and analytical batch 880-64180 was outside the upper control limits.

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

GC Semi VOA

Method 8015MOD_NM: 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') (880-34090-1) and S-1 (1.5') (880-34090-2). 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.

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: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34090-1

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 13:00	10/08/23 22:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/06/23 13:00	10/08/23 22:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/06/23 13:00	10/08/23 22:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/06/23 13:00	10/08/23 22:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/06/23 13:00	10/08/23 22:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/06/23 13:00	10/08/23 22:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	10/06/23 13:00	10/08/23 22:32	1
1,4-Difluorobenzene (Surr)	117		70 - 130	10/06/23 13:00	10/08/23 22:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/08/23 22:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			10/07/23 22:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		10/06/23 13:49	10/07/23 22:55	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		10/06/23 13:49	10/07/23 22:55	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		10/06/23 13:49	10/07/23 22:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	10/06/23 13:49	10/07/23 22:55	1
o-Terphenyl	140	S1+	70 - 130	10/06/23 13:49	10/07/23 22:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	989		4.96		mg/Kg			10/10/23 11:00	1

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-34090-2

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 13:00	10/08/23 22:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/08/23 22:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/08/23 22:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/06/23 13:00	10/08/23 22:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/08/23 22:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/06/23 13:00	10/08/23 22:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	10/06/23 13:00	10/08/23 22:52	1
1,4-Difluorobenzene (Surr)	121		70 - 130	10/06/23 13:00	10/08/23 22:52	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-34090-2

Date Collected: 10/03/23 00:00

Matrix: Solid

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	<0.00399	U	0.00399		mg/Kg			10/08/23 22:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/07/23 23:17	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	<49.9	U	49.9		mg/Kg		10/06/23 13:49	10/07/23 23:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/06/23 13:49	10/07/23 23:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/06/23 13:49	10/07/23 23:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				10/06/23 13:49	10/07/23 23:17	1
o-Terphenyl	132	S1+	70 - 130				10/06/23 13:49	10/07/23 23:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132		5.01		mg/Kg			10/10/23 11:14	1

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-34090-3

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 13:00	10/08/23 23:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/08/23 23:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/08/23 23:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/06/23 13:00	10/08/23 23:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/08/23 23:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/06/23 13:00	10/08/23 23:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				10/06/23 13:00	10/08/23 23:13	1
1,4-Difluorobenzene (Surr)	107		70 - 130				10/06/23 13:00	10/08/23 23:13	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			10/08/23 23:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			10/07/23 23:37	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 13:49	10/07/23 23:37	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		10/06/23 13:49	10/07/23 23:37	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-34090-3

Date Collected: 10/03/23 00:00

Matrix: Solid

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
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/06/23 13:49	10/07/23 23:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				10/06/23 13:49	10/07/23 23:37	1
o-Terphenyl	124		70 - 130				10/06/23 13:49	10/07/23 23:37	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 11:19	1

Client Sample ID: S-1 (3.0')

Lab Sample ID: 880-34090-4

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 13:00	10/08/23 23:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/06/23 13:00	10/08/23 23:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/06/23 13:00	10/08/23 23:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/06/23 13:00	10/08/23 23:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/06/23 13:00	10/08/23 23:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/06/23 13:00	10/08/23 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				10/06/23 13:00	10/08/23 23:33	1
1,4-Difluorobenzene (Surr)	115		70 - 130				10/06/23 13:00	10/08/23 23:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/08/23 23:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/07/23 23:59	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 13:49	10/07/23 23:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/06/23 13:49	10/07/23 23:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/06/23 13:49	10/07/23 23:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				10/06/23 13:49	10/07/23 23:59	1
o-Terphenyl	128		70 - 130				10/06/23 13:49	10/07/23 23:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	506		5.02		mg/Kg			10/10/23 11:24	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (4.0')

Lab Sample ID: 880-34090-5

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 13:00	10/08/23 23:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/06/23 13:00	10/08/23 23:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/06/23 13:00	10/08/23 23:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/06/23 13:00	10/08/23 23:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/06/23 13:00	10/08/23 23:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/06/23 13:00	10/08/23 23:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/06/23 13:00	10/08/23 23:54	1
1,4-Difluorobenzene (Surr)	113		70 - 130	10/06/23 13:00	10/08/23 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			10/08/23 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	<50.2	U	50.2		mg/Kg			10/08/23 00:20	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	<50.2	U	50.2		mg/Kg		10/06/23 13:49	10/08/23 00:20	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		10/06/23 13:49	10/08/23 00:20	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		10/06/23 13:49	10/08/23 00:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	10/06/23 13:49	10/08/23 00:20	1
o-Terphenyl	124		70 - 130	10/06/23 13:49	10/08/23 00:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10400		49.9		mg/Kg			10/10/23 11:29	10

Client Sample ID: S-1 (5.0')

Lab Sample ID: 880-34090-6

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 13:00	10/09/23 00:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/09/23 00:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/09/23 00:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/06/23 13:00	10/09/23 00:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/09/23 00:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/06/23 13:00	10/09/23 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	10/06/23 13:00	10/09/23 00:14	1
1,4-Difluorobenzene (Surr)	113		70 - 130	10/06/23 13:00	10/09/23 00:14	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (5.0')

Lab Sample ID: 880-34090-6

Date Collected: 10/03/23 00:00

Matrix: Solid

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	<0.00399	U	0.00399		mg/Kg			10/09/23 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	<50.0	U	50.0		mg/Kg			10/08/23 01:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/06/23 13:49	10/08/23 01:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/06/23 13:49	10/08/23 01:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/06/23 13:49	10/08/23 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	10/06/23 13:49	10/08/23 01:02	1
o-Terphenyl	112		70 - 130	10/06/23 13:49	10/08/23 01:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		4.98		mg/Kg			10/10/23 11:34	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
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
880-34090-1	S-1 (0-1')	107	117
880-34090-2	S-1 (1.5')	103	121
880-34090-3	S-1 (2.0')	101	107
880-34090-4	S-1 (3.0')	105	115
880-34090-5	S-1 (4.0')	99	113
880-34090-6	S-1 (5.0')	102	113
LCS 880-64139/1-A	Lab Control Sample	101	107
LCSD 880-64139/2-A	Lab Control Sample Dup	100	109
MB 880-64139/5-A	Method Blank	116	151 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
880-34090-1	S-1 (0-1')	131 S1+	140 S1+
880-34090-2	S-1 (1.5')	123	132 S1+
880-34090-3	S-1 (2.0')	117	124
880-34090-4	S-1 (3.0')	118	128
880-34090-5	S-1 (4.0')	113	124
880-34090-6	S-1 (5.0')	105	112
LCS 880-64148/2-A	Lab Control Sample	101	105
LCSD 880-64148/3-A	Lab Control Sample Dup	101	106
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: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

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	Limit
Benzene	0.100	0.1057		mg/Kg		106	70 - 130	5	35
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

Matrix: Solid

Analysis Batch: 64180

Client Sample ID: Matrix Spike

Prep Type: Total/NA

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

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34086-A-21-B MS

Matrix: Solid

Analysis Batch: 64180

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64139

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

Matrix: Solid

Analysis Batch: 64180

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

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

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

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
Oil 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

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
SDG: Lea County, New Mexico

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

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

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

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

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

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

Lab Sample ID: 880-34088-A-8-E MS

Matrix: Solid

Analysis Batch: 64170

Client Sample ID: Matrix Spike

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

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

Lab Sample ID: 880-34088-A-8-F MSD

Matrix: Solid

Analysis Batch: 64170

Client Sample ID: Matrix Spike Duplicate

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

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

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QC Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
SDG: Lea County, New Mexico

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

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: 880-34089-A-3-B MS

Matrix: Solid

Analysis Batch: 64309

Client Sample ID: Matrix Spike

Prep Type: Soluble

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

Lab Sample ID: 880-34089-A-3-C MSD

Matrix: Solid

Analysis Batch: 64309

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

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

QC Association Summary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34090-1	S-1 (0-1')	Total/NA	Solid	5035	
880-34090-2	S-1 (1.5')	Total/NA	Solid	5035	
880-34090-3	S-1 (2.0')	Total/NA	Solid	5035	
880-34090-4	S-1 (3.0')	Total/NA	Solid	5035	
880-34090-5	S-1 (4.0')	Total/NA	Solid	5035	
880-34090-6	S-1 (5.0')	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	

Analysis Batch: 64180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34090-1	S-1 (0-1')	Total/NA	Solid	8021B	64139
880-34090-2	S-1 (1.5')	Total/NA	Solid	8021B	64139
880-34090-3	S-1 (2.0')	Total/NA	Solid	8021B	64139
880-34090-4	S-1 (3.0')	Total/NA	Solid	8021B	64139
880-34090-5	S-1 (4.0')	Total/NA	Solid	8021B	64139
880-34090-6	S-1 (5.0')	Total/NA	Solid	8021B	64139
MB 880-64139/5-A	Method Blank	Total/NA	Solid	8021B	64139
LCS 880-64139/1-A	Lab Control Sample	Total/NA	Solid	8021B	64139
LCSD 880-64139/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64139
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

Analysis Batch: 64269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34090-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-34090-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-34090-3	S-1 (2.0')	Total/NA	Solid	Total BTEX	
880-34090-4	S-1 (3.0')	Total/NA	Solid	Total BTEX	
880-34090-5	S-1 (4.0')	Total/NA	Solid	Total BTEX	
880-34090-6	S-1 (5.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34090-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-34090-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-34090-3	S-1 (2.0')	Total/NA	Solid	8015NM Prep	
880-34090-4	S-1 (3.0')	Total/NA	Solid	8015NM Prep	
880-34090-5	S-1 (4.0')	Total/NA	Solid	8015NM Prep	
880-34090-6	S-1 (5.0')	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	

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QC Association Summary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 64170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34090-1	S-1 (0-1')	Total/NA	Solid	8015B NM	64148
880-34090-2	S-1 (1.5')	Total/NA	Solid	8015B NM	64148
880-34090-3	S-1 (2.0')	Total/NA	Solid	8015B NM	64148
880-34090-4	S-1 (3.0')	Total/NA	Solid	8015B NM	64148
880-34090-5	S-1 (4.0')	Total/NA	Solid	8015B NM	64148
880-34090-6	S-1 (5.0')	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: 64252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34090-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-34090-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-34090-3	S-1 (2.0')	Total/NA	Solid	8015 NM	
880-34090-4	S-1 (3.0')	Total/NA	Solid	8015 NM	
880-34090-5	S-1 (4.0')	Total/NA	Solid	8015 NM	
880-34090-6	S-1 (5.0')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34090-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-34090-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-34090-3	S-1 (2.0')	Soluble	Solid	DI Leach	
880-34090-4	S-1 (3.0')	Soluble	Solid	DI Leach	
880-34090-5	S-1 (4.0')	Soluble	Solid	DI Leach	
880-34090-6	S-1 (5.0')	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	

Analysis Batch: 64309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34090-1	S-1 (0-1')	Soluble	Solid	300.0	64130
880-34090-2	S-1 (1.5')	Soluble	Solid	300.0	64130
880-34090-3	S-1 (2.0')	Soluble	Solid	300.0	64130
880-34090-4	S-1 (3.0')	Soluble	Solid	300.0	64130
880-34090-5	S-1 (4.0')	Soluble	Solid	300.0	64130
880-34090-6	S-1 (5.0')	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
880-34089-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

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (0-1')
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

Lab Sample ID: 880-34090-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	64139	10/06/23 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64180	10/08/23 22:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64269	10/08/23 22:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			64252	10/07/23 22:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 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 22:55	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 11:00	CH	EET MID

Client Sample ID: S-1 (1.5')
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

Lab Sample ID: 880-34090-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	64139	10/06/23 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64180	10/08/23 22:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64269	10/08/23 22:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			64252	10/07/23 23:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 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 23:17	SM	EET MID
Soluble	Leach	DI Leach			4.99 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 11:14	CH	EET MID

Client Sample ID: S-1 (2.0')
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

Lab Sample ID: 880-34090-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	64139	10/06/23 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64180	10/08/23 23:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64269	10/08/23 23:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			64252	10/07/23 23:37	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 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 23:37	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 11:19	CH	EET MID

Client Sample ID: S-1 (3.0')
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

Lab Sample ID: 880-34090-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	64139	10/06/23 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64180	10/08/23 23:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64269	10/08/23 23:33	SM	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (3.0')
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

Lab Sample ID: 880-34090-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			64252	10/07/23 23:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 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 23:59	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 11:24	CH	EET MID

Client Sample ID: S-1 (4.0')
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

Lab Sample ID: 880-34090-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	64139	10/06/23 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64180	10/08/23 23:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64269	10/08/23 23:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			64252	10/08/23 00:20	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 00:20	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		10	50 mL	50 mL	64309	10/10/23 11:29	CH	EET MID

Client Sample ID: S-1 (5.0')
Date Collected: 10/03/23 00:00
Date Received: 10/06/23 10:39

Lab Sample ID: 880-34090-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 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 00:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64269	10/09/23 00:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			64252	10/08/23 01:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 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 01:02	SM	EET MID
Soluble	Leach	DI Leach			5.02 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 11:34	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: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
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

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Method Summary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
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: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34090-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34090-1	S-1 (0-1')	Solid	10/03/23 00:00	10/06/23 10:39
880-34090-2	S-1 (1.5')	Solid	10/03/23 00:00	10/06/23 10:39
880-34090-3	S-1 (2.0')	Solid	10/03/23 00:00	10/06/23 10:39
880-34090-4	S-1 (3.0')	Solid	10/03/23 00:00	10/06/23 10:39
880-34090-5	S-1 (4.0')	Solid	10/03/23 00:00	10/06/23 10:39
880-34090-6	S-1 (5.0')	Solid	10/03/23 00:00	10/06/23 10:39

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Crit of Cus'ody



880-34090 Chain of Custody

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

Page 1 of 1

Work Order Comments			
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐ State of Project: _____ Reporting Level I ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other _____			

[illegible]

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
<i>Shirley May</i>	11-6-23	<i>[Signature]</i>	
	1239		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34090-1
SDG Number: Lea County, New Mexico

Login Number: 34090

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/10/2023 4:18:47 PM

JOB DESCRIPTION

Black Pearl Fed Com 1H (09.28.23)
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34089-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
10/10/2023 4:18:47 PM

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

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Laboratory Job ID: 880-34089-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34089-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Case Narrative

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34089-1
SDG: Lea County, New Mexico

Job ID: 880-34089-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-34089-1**

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') (880-34089-1), H-2 (0-0.5') (880-34089-2), H-3 (0-0.5') (880-34089-3) and H-4 (0-0.5') (880-34089-4).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-64080 recovered under the lower control limit for Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.>(CCV 880-64080/64)

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-64082 and analytical batch 880-64080 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-63806 and 880-64082 and analytical batch 880-64080 was outside the upper control limits.

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

GC Semi VOA

Method 8015MOD_NM: 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: H-3 (0-0.5') (880-34089-3) and H-4 (0-0.5') (880-34089-4). 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.

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.

Case Narrative

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34089-1
SDG: Lea County, New Mexico

Job ID: 880-34089-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

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Client Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34089-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34089-1

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 13:00	10/08/23 00:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/06/23 13:00	10/08/23 00:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/06/23 13:00	10/08/23 00:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/06/23 13:00	10/08/23 00:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/06/23 13:00	10/08/23 00:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/06/23 13:00	10/08/23 00:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	10/06/23 13:00	10/08/23 00:56	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/06/23 13:00	10/08/23 00:56	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 00:56	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 21:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		10/06/23 13:49	10/07/23 21:30	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		10/06/23 13:49	10/07/23 21:30	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/06/23 13:49	10/07/23 21:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	10/06/23 13:49	10/07/23 21:30	1
o-Terphenyl	128		70 - 130	10/06/23 13:49	10/07/23 21:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.1		5.02		mg/Kg			10/10/23 10:31	1

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

Lab Sample ID: 880-34089-2

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 13:00	10/08/23 01:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/08/23 01:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/08/23 01:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/06/23 13:00	10/08/23 01:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/08/23 01:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/06/23 13:00	10/08/23 01:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	10/06/23 13:00	10/08/23 01:17	1
1,4-Difluorobenzene (Surr)	110		70 - 130	10/06/23 13:00	10/08/23 01:17	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34089-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34089-2

Date Collected: 10/03/23 00:00

Matrix: Solid

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	<0.00399	U	0.00399		mg/Kg			10/08/23 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	<50.5	U	50.5		mg/Kg			10/07/23 21:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/06/23 13:49	10/07/23 21:52	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		10/06/23 13:49	10/07/23 21:52	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/06/23 13:49	10/07/23 21:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				10/06/23 13:49	10/07/23 21:52	1
o-Terphenyl	124		70 - 130				10/06/23 13:49	10/07/23 21:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		5.00		mg/Kg			10/10/23 10:35	1

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

Lab Sample ID: 880-34089-3

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	<0.00198	U	0.00198		mg/Kg		10/06/23 13:00	10/08/23 01:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/06/23 13:00	10/08/23 01:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/06/23 13:00	10/08/23 01:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/06/23 13:00	10/08/23 01:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/06/23 13:00	10/08/23 01:37	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/06/23 13:00	10/08/23 01:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				10/06/23 13:00	10/08/23 01:37	1
1,4-Difluorobenzene (Surr)	116		70 - 130				10/06/23 13:00	10/08/23 01:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/08/23 01:37	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 22:13	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 13:49	10/07/23 22:13	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		10/06/23 13:49	10/07/23 22:13	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34089-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34089-3

Date Collected: 10/03/23 00:00

Matrix: Solid

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
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		10/06/23 13:49	10/07/23 22:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130				10/06/23 13:49	10/07/23 22:13	1
o-Terphenyl	155	S1+	70 - 130				10/06/23 13:49	10/07/23 22:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100	F1	4.98		mg/Kg			10/10/23 10:40	1

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

Lab Sample ID: 880-34089-4

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 13:00	10/08/23 01:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/08/23 01:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/08/23 01:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/06/23 13:00	10/08/23 01:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/06/23 13:00	10/08/23 01:57	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/06/23 13:00	10/08/23 01:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				10/06/23 13:00	10/08/23 01:57	1
1,4-Difluorobenzene (Surr)	107		70 - 130				10/06/23 13:00	10/08/23 01:57	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			10/08/23 01:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/07/23 22:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/06/23 13:49	10/07/23 22:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/06/23 13:49	10/07/23 22:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/06/23 13:49	10/07/23 22:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				10/06/23 13:49	10/07/23 22:34	1
o-Terphenyl	144	S1+	70 - 130				10/06/23 13:49	10/07/23 22:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		4.95		mg/Kg			10/10/23 10:55	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34089-1
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)
880-34081-A-1-A MS	Matrix Spike	93	106
880-34081-A-1-B MSD	Matrix Spike Duplicate	102	110
880-34089-1	H-1 (0-0.5')	93	108
880-34089-2	H-2 (0-0.5')	95	110
880-34089-3	H-3 (0-0.5')	99	116
880-34089-4	H-4 (0-0.5')	97	107
LCS 880-64082/1-A	Lab Control Sample	104	102
LCSD 880-64082/2-A	Lab Control Sample Dup	108	102
MB 880-63806/5-A	Method Blank	123	134 S1+
MB 880-64082/5-A	Method Blank	120	148 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
880-34089-1	H-1 (0-0.5')	118	128
880-34089-2	H-2 (0-0.5')	116	124
880-34089-3	H-3 (0-0.5')	142 S1+	155 S1+
880-34089-4	H-4 (0-0.5')	133 S1+	144 S1+
LCS 880-64148/2-A	Lab Control Sample	101	105
LCSD 880-64148/3-A	Lab Control Sample Dup	101	106
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: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34089-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-63806/5-A

Matrix: Solid

Analysis Batch: 64080

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/02/23 16:41	10/07/23 11:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/02/23 16:41	10/07/23 11:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/02/23 16:41	10/07/23 11:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/02/23 16:41	10/07/23 11:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/02/23 16:41	10/07/23 11:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/02/23 16:41	10/07/23 11:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	10/02/23 16:41	10/07/23 11:50	1
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130	10/02/23 16:41	10/07/23 11:50	1

Lab Sample ID: MB 880-64082/5-A

Matrix: Solid

Analysis Batch: 64080

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64082

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/06/23 08:56	10/07/23 23:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/06/23 08:56	10/07/23 23:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/06/23 08:56	10/07/23 23:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/06/23 08:56	10/07/23 23:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/06/23 08:56	10/07/23 23:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/06/23 08:56	10/07/23 23:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	10/06/23 08:56	10/07/23 23:26	1
1,4-Difluorobenzene (Surr)	148	S1+	70 - 130	10/06/23 08:56	10/07/23 23:26	1

Lab Sample ID: LCS 880-64082/1-A

Matrix: Solid

Analysis Batch: 64080

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1137		mg/Kg		114	70 - 130
Toluene	0.100	0.1050		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1092		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2305		mg/Kg		115	70 - 130
o-Xylene	0.100	0.1099		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-64082/2-A

Matrix: Solid

Analysis Batch: 64080

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64082

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1095		mg/Kg		110	70 - 130	4	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34089-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-64082/2-A

Matrix: Solid

Analysis Batch: 64080

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64082

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09976		mg/Kg		100	70 - 130	5	35
Ethylbenzene	0.100	0.09641		mg/Kg		96	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2241		mg/Kg		112	70 - 130	3	35
o-Xylene	0.100	0.1068		mg/Kg		107	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-34081-A-1-A MS

Matrix: Solid

Analysis Batch: 64080

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64082

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.09296		mg/Kg		93	70 - 130
Toluene	<0.00199	U	0.0998	0.07741		mg/Kg		78	70 - 130
Ethylbenzene	<0.00199	U F1	0.0998	0.06907	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1655		mg/Kg		83	70 - 130
o-Xylene	<0.00199	U	0.0998	0.07898		mg/Kg		79	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-34081-A-1-B MSD

Matrix: Solid

Analysis Batch: 64080

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64082

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	0.09153		mg/Kg		91	70 - 130	2	35
Toluene	<0.00199	U	0.100	0.07894		mg/Kg		79	70 - 130	2	35
Ethylbenzene	<0.00199	U F1	0.100	0.07093		mg/Kg		71	70 - 130	3	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1677		mg/Kg		84	70 - 130	1	35
o-Xylene	<0.00199	U	0.100	0.08099		mg/Kg		81	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

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

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

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QC Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34089-1
SDG: Lea County, New Mexico

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

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

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

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

Matrix: Solid

Analysis Batch: 64170

Client Sample ID: Matrix Spike

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						

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QC Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34089-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34088-A-8-F MSD

Matrix: Solid

Analysis Batch: 64170

Client Sample ID: Matrix Spike Duplicate

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		

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: 880-34089-3 MS

Matrix: Solid

Analysis Batch: 64309

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

Prep Type: Soluble

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: 880-34089-3 MSD

Matrix: Solid

Analysis Batch: 64309

Client Sample ID: H-3 (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	100	F1	249	293.1	F1	mg/Kg		77	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34089-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 63806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-63806/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 64080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34089-1	H-1 (0-0.5')	Total/NA	Solid	8021B	64082
880-34089-2	H-2 (0-0.5')	Total/NA	Solid	8021B	64082
880-34089-3	H-3 (0-0.5')	Total/NA	Solid	8021B	64082
880-34089-4	H-4 (0-0.5')	Total/NA	Solid	8021B	64082
MB 880-63806/5-A	Method Blank	Total/NA	Solid	8021B	63806
MB 880-64082/5-A	Method Blank	Total/NA	Solid	8021B	64082
LCS 880-64082/1-A	Lab Control Sample	Total/NA	Solid	8021B	64082
LCSD 880-64082/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64082
880-34081-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	64082
880-34081-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64082

Prep Batch: 64082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34089-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-34089-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-34089-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-34089-4	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-64082/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64082/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64082/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34081-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-34081-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34089-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-34089-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-34089-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-34089-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34089-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-34089-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-34089-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-34089-4	H-4 (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-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
880-34089-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	64148

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QC Association Summary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34089-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 64170 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34089-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	64148
880-34089-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	64148
880-34089-4	H-4 (0-0.5')	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: 64251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34089-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-34089-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-34089-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-34089-4	H-4 (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
880-34089-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-34089-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-34089-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-34089-4	H-4 (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	
880-34089-3 MS	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-34089-3 MSD	H-3 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 64309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34089-1	H-1 (0-0.5')	Soluble	Solid	300.0	64130
880-34089-2	H-2 (0-0.5')	Soluble	Solid	300.0	64130
880-34089-3	H-3 (0-0.5')	Soluble	Solid	300.0	64130
880-34089-4	H-4 (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
880-34089-3 MS	H-3 (0-0.5')	Soluble	Solid	300.0	64130
880-34089-3 MSD	H-3 (0-0.5')	Soluble	Solid	300.0	64130

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34089-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34089-1

Date Collected: 10/03/23 00:00

Matrix: Solid

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	64082	10/06/23 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64080	10/08/23 00:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64282	10/08/23 00:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			64251	10/07/23 21:30	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		1	1 uL	1 uL	64170	10/07/23 21:30	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 10:31	CH	EET MID

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

Lab Sample ID: 880-34089-2

Date Collected: 10/03/23 00:00

Matrix: Solid

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	64082	10/06/23 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64080	10/08/23 01:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64282	10/08/23 01:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			64251	10/07/23 21:52	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 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 21:52	SM	EET MID
Soluble	Leach	DI Leach			5 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 10:35	CH	EET MID

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

Lab Sample ID: 880-34089-3

Date Collected: 10/03/23 00:00

Matrix: Solid

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	64082	10/06/23 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64080	10/08/23 01:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64282	10/08/23 01:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			64251	10/07/23 22:13	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	10/07/23 22:13	SM	EET MID
Soluble	Leach	DI Leach			5.02 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 10:40	CH	EET MID

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

Lab Sample ID: 880-34089-4

Date Collected: 10/03/23 00:00

Matrix: Solid

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	64082	10/06/23 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64080	10/08/23 01:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64282	10/08/23 01:57	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34089-1
SDG: Lea County, New Mexico

Client Sample ID: H-4 (0-0.5') Lab Sample ID: 880-34089-4
Date Collected: 10/03/23 00:00 Matrix: Solid
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			64251	10/07/23 22:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 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 22:34	SM	EET MID
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 10:55	CH	EET MID

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34089-1
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: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34089-1
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: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34089-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34089-1	H-1 (0-0.5')	Solid	10/03/23 00:00	10/06/23 10:39
880-34089-2	H-2 (0-0.5')	Solid	10/03/23 00:00	10/06/23 10:39
880-34089-3	H-3 (0-0.5')	Solid	10/03/23 00:00	10/06/23 10:39
880-34089-4	H-4 (0-0.5')	Solid	10/03/23 00:00	10/06/23 10:39

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880-34089 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/PT ☐ PRP ☐ Brownfields ☐ RC ☐ Iperfund ☐ State of Project: Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other									

[illegible]

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
<i>Marina Ward</i>	10-6-73	<i>[Signature]</i>	
	1034		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34089-1
SDG Number: Lea County, New Mexico

Login Number: 34089

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/23/2023 10:48:26 PM

JOB DESCRIPTION

Black Pearl Fed Com 1H (09.28.23)
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34727-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
10/23/2023 10:48:26 PM

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

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Laboratory Job ID: 880-34727-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Qualifiers

GC 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.

GC Semi VOA

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

Case Narrative

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Job ID: 880-34727-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-34727-1**

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 10/20/2023 3:37 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (4.5') (880-34727-1), CS-2 (4.5') (880-34727-2), CS-3 (4.5') (880-34727-3), CS-4 (4.5') (880-34727-4), CS-5 (4.5') (880-34727-5), CS-6 (4.5') (880-34727-6), CS-7 (4.5') (880-34727-7), SW-1 (4.5') (880-34727-8), SW-2 (4.5') (880-34727-9), SW-3 (4.5') (880-34727-10) and SW-4 (4.5') (880-34727-11).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-4 (4.5') (880-34727-11) and (MB 880-65335/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-34727-A-1-E MS). 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 880-65275 and analytical batch 880-65322 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-2 (4.5') (880-34727-2), CS-6 (4.5') (880-34727-6) and SW-3 (4.5') (880-34727-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-65275 and analytical batch 880-65322 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65276 and analytical batch 880-65282 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-65282/20), (CCV 880-65282/31) and (CCV 880-65282/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-65276 and analytical batch 880-65282 was outside control limits. Sample non-homogeneity is suspected.

Case Narrative

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Job ID: 880-34727-1 (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

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-64954 and analytical batch 880-65186 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.

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Client Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Client Sample ID: CS-1 (4.5')

Lab Sample ID: 880-34727-1

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		10/21/23 15:12	10/23/23 12:40	1
Toluene	<0.00199	U F1 F2	0.00199		mg/Kg		10/21/23 15:12	10/23/23 12:40	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		10/21/23 15:12	10/23/23 12:40	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		10/21/23 15:12	10/23/23 12:40	1
o-Xylene	<0.00199	U F2	0.00199		mg/Kg		10/21/23 15:12	10/23/23 12:40	1
Xylenes, Total	<0.00398	U F2	0.00398		mg/Kg		10/21/23 15:12	10/23/23 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	10/21/23 15:12	10/23/23 12:40	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/21/23 15:12	10/23/23 12:40	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			10/23/23 12:40	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			10/22/23 11:12	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	<49.9	U	49.9		mg/Kg		10/21/23 16:11	10/22/23 11:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U F2	49.9		mg/Kg		10/21/23 16:11	10/22/23 11:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/21/23 16:11	10/22/23 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	10/21/23 16:11	10/22/23 11:12	1
o-Terphenyl	105		70 - 130	10/21/23 16:11	10/22/23 11:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		4.97		mg/Kg			10/23/23 10:48	1

Client Sample ID: CS-2 (4.5')

Lab Sample ID: 880-34727-2

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00325		0.00200		mg/Kg		10/21/23 15:12	10/23/23 13:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 13:00	1
Ethylbenzene	0.00200		0.00200		mg/Kg		10/21/23 15:12	10/23/23 13:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/21/23 15:12	10/23/23 13:00	1
o-Xylene	0.00530		0.00200		mg/Kg		10/21/23 15:12	10/23/23 13:00	1
Xylenes, Total	0.00530		0.00399		mg/Kg		10/21/23 15:12	10/23/23 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	255	S1+	70 - 130	10/21/23 15:12	10/23/23 13:00	1
1,4-Difluorobenzene (Surr)	93		70 - 130	10/21/23 15:12	10/23/23 13:00	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Client Sample ID: CS-2 (4.5')

Lab Sample ID: 880-34727-2

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0106		0.00399		mg/Kg			10/23/23 13:00	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			10/22/23 12:18	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	<50.5	U	50.5		mg/Kg		10/21/23 16:11	10/22/23 12:18	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		10/21/23 16:11	10/22/23 12:18	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/21/23 16:11	10/22/23 12:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				10/21/23 16:11	10/22/23 12:18	1
o-Terphenyl	113		70 - 130				10/21/23 16:11	10/22/23 12:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.3		4.96		mg/Kg			10/23/23 10:54	1

Client Sample ID: CS-3 (4.5')

Lab Sample ID: 880-34727-3

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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		10/21/23 15:12	10/23/23 13:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 13:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 13:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/21/23 15:12	10/23/23 13:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 13:21	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/21/23 15:12	10/23/23 13:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				10/21/23 15:12	10/23/23 13:21	1
1,4-Difluorobenzene (Surr)	99		70 - 130				10/21/23 15:12	10/23/23 13:21	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			10/23/23 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/22/23 12:40	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		10/21/23 16:11	10/22/23 12:40	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		10/21/23 16:11	10/22/23 12:40	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Client Sample ID: CS-3 (4.5')

Lab Sample ID: 880-34727-3

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/21/23 16:11	10/22/23 12:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				10/21/23 16:11	10/22/23 12:40	1
o-Terphenyl	108		70 - 130				10/21/23 16:11	10/22/23 12:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.2		5.01		mg/Kg			10/23/23 11:11	1

Client Sample ID: CS-4 (4.5')

Lab Sample ID: 880-34727-4

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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		10/21/23 15:12	10/23/23 13:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/21/23 15:12	10/23/23 13:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/21/23 15:12	10/23/23 13:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/21/23 15:12	10/23/23 13:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/21/23 15:12	10/23/23 13:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/21/23 15:12	10/23/23 13:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				10/21/23 15:12	10/23/23 13:41	1
1,4-Difluorobenzene (Surr)	116		70 - 130				10/21/23 15:12	10/23/23 13:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/23/23 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/22/23 13:02	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		10/21/23 16:11	10/22/23 13:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/21/23 16:11	10/22/23 13:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/21/23 16:11	10/22/23 13:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				10/21/23 16:11	10/22/23 13:02	1
o-Terphenyl	114		70 - 130				10/21/23 16:11	10/22/23 13:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		5.03		mg/Kg			10/23/23 11:16	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Client Sample ID: CS-5 (4.5')

Lab Sample ID: 880-34727-5

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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		10/21/23 15:12	10/23/23 14:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/21/23 15:12	10/23/23 14:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/21/23 15:12	10/23/23 14:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/21/23 15:12	10/23/23 14:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/21/23 15:12	10/23/23 14:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/21/23 15:12	10/23/23 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	10/21/23 15:12	10/23/23 14:02	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/21/23 15:12	10/23/23 14:02	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			10/23/23 14:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			10/22/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		10/21/23 16:11	10/22/23 13:25	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		10/21/23 16:11	10/22/23 13:25	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/21/23 16:11	10/22/23 13:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	10/21/23 16:11	10/22/23 13:25	1
o-Terphenyl	112		70 - 130	10/21/23 16:11	10/22/23 13:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.0		5.02		mg/Kg			10/23/23 11:22	1

Client Sample ID: CS-6 (4.5')

Lab Sample ID: 880-34727-6

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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		10/21/23 15:12	10/23/23 14:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 14:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 14:22	1
m-Xylene & p-Xylene	0.00409		0.00399		mg/Kg		10/21/23 15:12	10/23/23 14:22	1
o-Xylene	0.00251		0.00200		mg/Kg		10/21/23 15:12	10/23/23 14:22	1
Xylenes, Total	0.00660		0.00399		mg/Kg		10/21/23 15:12	10/23/23 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	299	S1+	70 - 130	10/21/23 15:12	10/23/23 14:22	1
1,4-Difluorobenzene (Surr)	113		70 - 130	10/21/23 15:12	10/23/23 14:22	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Client Sample ID: CS-6 (4.5')

Lab Sample ID: 880-34727-6

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00660		0.00399		mg/Kg			10/23/23 14:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			10/22/23 13:47	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	<50.2	U	50.2		mg/Kg		10/21/23 16:11	10/22/23 13:47	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		10/21/23 16:11	10/22/23 13:47	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		10/21/23 16:11	10/22/23 13:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				10/21/23 16:11	10/22/23 13:47	1
o-Terphenyl	106		70 - 130				10/21/23 16:11	10/22/23 13:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.0		5.05		mg/Kg			10/23/23 11:28	1

Client Sample ID: CS-7 (4.5')

Lab Sample ID: 880-34727-7

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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		10/21/23 15:12	10/23/23 14:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 14:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 14:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/21/23 15:12	10/23/23 14:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 14:43	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/21/23 15:12	10/23/23 14:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				10/21/23 15:12	10/23/23 14:43	1
1,4-Difluorobenzene (Surr)	109		70 - 130				10/21/23 15:12	10/23/23 14:43	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			10/23/23 14:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/22/23 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 14:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 14:09	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Client Sample ID: CS-7 (4.5')

Lab Sample ID: 880-34727-7

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 14:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				10/21/23 16:11	10/22/23 14:09	1
o-Terphenyl	116		70 - 130				10/21/23 16:11	10/22/23 14:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.0		5.00		mg/Kg			10/23/23 11:33	1

Client Sample ID: SW-1 (4.5')

Lab Sample ID: 880-34727-8

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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		10/21/23 15:12	10/23/23 15:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/21/23 15:12	10/23/23 15:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/21/23 15:12	10/23/23 15:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/21/23 15:12	10/23/23 15:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/21/23 15:12	10/23/23 15:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/21/23 15:12	10/23/23 15:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				10/21/23 15:12	10/23/23 15:03	1
1,4-Difluorobenzene (Surr)	113		70 - 130				10/21/23 15:12	10/23/23 15:03	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			10/23/23 15:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/22/23 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 14:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 14:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				10/21/23 16:11	10/22/23 14:32	1
o-Terphenyl	114		70 - 130				10/21/23 16:11	10/22/23 14:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		4.99		mg/Kg			10/23/23 11:39	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Client Sample ID: SW-2 (4.5')

Lab Sample ID: 880-34727-9

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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		10/21/23 15:12	10/23/23 15:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/21/23 15:12	10/23/23 15:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/21/23 15:12	10/23/23 15:24	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/21/23 15:12	10/23/23 15:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/21/23 15:12	10/23/23 15:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/21/23 15:12	10/23/23 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/21/23 15:12	10/23/23 15:24	1
1,4-Difluorobenzene (Surr)	109		70 - 130	10/21/23 15:12	10/23/23 15:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/23/23 15:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/22/23 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/21/23 16:11	10/22/23 14:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/21/23 16:11	10/22/23 14:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/21/23 16:11	10/22/23 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	10/21/23 16:11	10/22/23 14:53	1
o-Terphenyl	112		70 - 130	10/21/23 16:11	10/22/23 14:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		4.96		mg/Kg			10/23/23 11:45	1

Client Sample ID: SW-3 (4.5')

Lab Sample ID: 880-34727-10

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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		10/21/23 15:12	10/23/23 15:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/21/23 15:12	10/23/23 15:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/21/23 15:12	10/23/23 15:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/21/23 15:12	10/23/23 15:44	1
o-Xylene	0.00206		0.00198		mg/Kg		10/21/23 15:12	10/23/23 15:44	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/21/23 15:12	10/23/23 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	232	S1+	70 - 130	10/21/23 15:12	10/23/23 15:44	1
1,4-Difluorobenzene (Surr)	214	S1+	70 - 130	10/21/23 15:12	10/23/23 15:44	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Client Sample ID: SW-3 (4.5')

Lab Sample ID: 880-34727-10

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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			10/23/23 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			10/22/23 15:15	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	<50.1	U	50.1		mg/Kg		10/21/23 16:11	10/22/23 15:15	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		10/21/23 16:11	10/22/23 15:15	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/21/23 16:11	10/22/23 15:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				10/21/23 16:11	10/22/23 15:15	1
o-Terphenyl	117		70 - 130				10/21/23 16:11	10/22/23 15:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		5.05		mg/Kg			10/23/23 10:03	1

Client Sample ID: SW-4 (4.5')

Lab Sample ID: 880-34727-11

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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		10/23/23 09:14	10/23/23 14:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 14:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 14:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/23/23 09:14	10/23/23 14:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 14:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/23/23 09:14	10/23/23 14:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				10/23/23 09:14	10/23/23 14:27	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130				10/23/23 09:14	10/23/23 14:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/23/23 14:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			10/22/23 16:00	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	<50.1	U	50.1		mg/Kg		10/21/23 16:11	10/22/23 16:00	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		10/21/23 16:11	10/22/23 16:00	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Client Sample ID: SW-4 (4.5')
Date Collected: 10/20/23 00:00
Date Received: 10/20/23 15:37

Lab Sample ID: 880-34727-11
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/21/23 16:11	10/22/23 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				10/21/23 16:11	10/22/23 16:00	1
o-Terphenyl	111		70 - 130				10/21/23 16:11	10/22/23 16:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		5.00		mg/Kg			10/23/23 10:09	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
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)
880-34727-1	CS-1 (4.5')	88	104
880-34727-1 MS	CS-1 (4.5')	237 S1+	148 S1+
880-34727-1 MSD	CS-1 (4.5')	105	100
880-34727-2	CS-2 (4.5')	255 S1+	93
880-34727-3	CS-3 (4.5')	91	99
880-34727-4	CS-4 (4.5')	93	116
880-34727-5	CS-5 (4.5')	101	105
880-34727-6	CS-6 (4.5')	299 S1+	113
880-34727-7	CS-7 (4.5')	93	109
880-34727-8	SW-1 (4.5')	87	113
880-34727-9	SW-2 (4.5')	98	109
880-34727-10	SW-3 (4.5')	232 S1+	214 S1+
880-34727-11	SW-4 (4.5')	80	65 S1-
880-34727-11 MS	SW-4 (4.5')	106	113
880-34727-11 MSD	SW-4 (4.5')	110	115
LCS 880-65275/1-A	Lab Control Sample	100	100
LCS 880-65335/1-A	Lab Control Sample	107	111
LCSD 880-65275/2-A	Lab Control Sample Dup	106	101
LCSD 880-65335/2-A	Lab Control Sample Dup	105	114
MB 880-65275/5-A	Method Blank	105	132 S1+
MB 880-65335/5-A	Method Blank	66 S1-	101
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)
880-34727-1	CS-1 (4.5')	114	105
880-34727-1 MS	CS-1 (4.5')	103	109
880-34727-1 MSD	CS-1 (4.5')	118	95
880-34727-2	CS-2 (4.5')	122	113
880-34727-3	CS-3 (4.5')	114	108
880-34727-4	CS-4 (4.5')	121	114
880-34727-5	CS-5 (4.5')	121	112
880-34727-6	CS-6 (4.5')	113	106
880-34727-7	CS-7 (4.5')	126	116
880-34727-8	SW-1 (4.5')	128	114
880-34727-9	SW-2 (4.5')	122	112
880-34727-10	SW-3 (4.5')	128	117
880-34727-11	SW-4 (4.5')	121	111
LCS 880-65276/2-A	Lab Control Sample	110	128
LCSD 880-65276/3-A	Lab Control Sample Dup	108	120
MB 880-65276/1-A	Method Blank	194 S1+	188 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			

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Surrogate Summary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)
OTPH = o-Terphenyl

Job ID: 880-34727-1
SDG: Lea County, New Mexico

- 1
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- 14

QC Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-65275/5-A

Matrix: Solid

Analysis Batch: 65322

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65275

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 12:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 12:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 12:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/21/23 15:12	10/23/23 12:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 12:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/21/23 15:12	10/23/23 12:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	10/21/23 15:12	10/23/23 12:11	1
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130	10/21/23 15:12	10/23/23 12:11	1

Lab Sample ID: LCS 880-65275/1-A

Matrix: Solid

Analysis Batch: 65322

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08759		mg/Kg		88	70 - 130
Toluene	0.100	0.07851		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.08016		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	0.200	0.1842		mg/Kg		92	70 - 130
o-Xylene	0.100	0.08963		mg/Kg		90	70 - 130

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

Lab Sample ID: LCSD 880-65275/2-A

Matrix: Solid

Analysis Batch: 65322

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65275

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09701		mg/Kg		97	70 - 130	10	35
Toluene	0.100	0.08247		mg/Kg		82	70 - 130	5	35
Ethylbenzene	0.100	0.08707		mg/Kg		87	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1945		mg/Kg		97	70 - 130	5	35
o-Xylene	0.100	0.09524		mg/Kg		95	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-34727-1 MS

Matrix: Solid

Analysis Batch: 65322

Client Sample ID: CS-1 (4.5')

Prep Type: Total/NA

Prep Batch: 65275

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.0998	0.05855	F1	mg/Kg		59	70 - 130
Toluene	<0.00199	U F1 F2	0.0998	0.01871	F1	mg/Kg		19	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34727-1 MS

Matrix: Solid

Analysis Batch: 65322

Client Sample ID: CS-1 (4.5')

Prep Type: Total/NA

Prep Batch: 65275

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1	0.0998	0.04971	F1	mg/Kg		50	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1759		mg/Kg		88	70 - 130
o-Xylene	<0.00199	U F2	0.0998	0.1242		mg/Kg		124	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	237	S1+	70 - 130
1,4-Difluorobenzene (Surr)	148	S1+	70 - 130

Lab Sample ID: 880-34727-1 MSD

Matrix: Solid

Analysis Batch: 65322

Client Sample ID: CS-1 (4.5')

Prep Type: Total/NA

Prep Batch: 65275

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0990	0.07354		mg/Kg		74	70 - 130	23	35
Toluene	<0.00199	U F1 F2	0.0990	0.04902	F1 F2	mg/Kg		50	70 - 130	89	35
Ethylbenzene	<0.00199	U F1	0.0990	0.06031	F1	mg/Kg		61	70 - 130	19	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.1299	F1	mg/Kg		66	70 - 130	30	35
o-Xylene	<0.00199	U F2	0.0990	0.07738	F2	mg/Kg		78	70 - 130	46	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-65335/5-A

Matrix: Solid

Analysis Batch: 65321

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 11:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 11:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 11:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/23/23 09:14	10/23/23 11:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 11:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/23/23 09:14	10/23/23 11:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	10/23/23 09:14	10/23/23 11:42	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/23/23 09:14	10/23/23 11:42	1

Lab Sample ID: LCS 880-65335/1-A

Matrix: Solid

Analysis Batch: 65321

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65335

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1038		mg/Kg		104	70 - 130
Toluene	0.100	0.1094		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1078		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2334		mg/Kg		117	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-65335/1-A

Matrix: Solid

Analysis Batch: 65321

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65335

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-65335/2-A

Matrix: Solid

Analysis Batch: 65321

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65335

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1087		mg/Kg		109	70 - 130	5	35
Toluene	0.100	0.1097		mg/Kg		110	70 - 130	0	35
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2300		mg/Kg		115	70 - 130	1	35
o-Xylene	0.100	0.1100		mg/Kg		110	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: 880-34727-11 MS

Matrix: Solid

Analysis Batch: 65321

Client Sample ID: SW-4 (4.5')

Prep Type: Total/NA

Prep Batch: 65335

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.1004		mg/Kg		101	70 - 130
Toluene	<0.00200	U	0.0998	0.1022		mg/Kg		102	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.09964		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2115		mg/Kg		106	70 - 130
o-Xylene	<0.00200	U	0.0998	0.1002		mg/Kg		100	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-34727-11 MSD

Matrix: Solid

Analysis Batch: 65321

Client Sample ID: SW-4 (4.5')

Prep Type: Total/NA

Prep Batch: 65335

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.09472		mg/Kg		96	70 - 130	6	35
Toluene	<0.00200	U	0.0990	0.09331		mg/Kg		94	70 - 130	9	35
Ethylbenzene	<0.00200	U	0.0990	0.09300		mg/Kg		94	70 - 130	7	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1993		mg/Kg		101	70 - 130	6	35
o-Xylene	<0.00200	U	0.0990	0.09450		mg/Kg		95	70 - 130	6	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34727-11 MSD				Client Sample ID: SW-4 (4.5')			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 65321				Prep Batch: 65335			
	MSD	MSD					
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	110		70 - 130				
1,4-Difluorobenzene (Surr)	115		70 - 130				

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

Lab Sample ID: MB 880-65276/1-A							Client Sample ID: Method Blank			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 65282							Prep Batch: 65276			
	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 08:17	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 08:17	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 08:17	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	194	S1+	70 - 130				10/21/23 16:11	10/22/23 08:17	1	
o-Terphenyl	188	S1+	70 - 130				10/21/23 16:11	10/22/23 08:17	1	

Lab Sample ID: LCS 880-65276/2-A						Client Sample ID: Lab Control Sample				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 65282						Prep Batch: 65276				
Analyte			Spike	LCS	LCS				%Rec	
			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	981.7		mg/Kg		98	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	956.4		mg/Kg		96	70 - 130	

Lab Sample ID: LCSD 880-65276/3-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 65282						Prep Batch: 65276					
			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	975.5		mg/Kg		98	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	910.9		mg/Kg		91	70 - 130	5	20
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	120		70 - 130								

QC Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34727-1 MS

Matrix: Solid

Analysis Batch: 65282

Client Sample ID: CS-1 (4.5')

Prep Type: Total/NA

Prep Batch: 65276

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	1010	1000		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F2	1010	929.0		mg/Kg		90	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	103		70 - 130								
o-Terphenyl	109		70 - 130								

Lab Sample ID: 880-34727-1 MSD

Matrix: Solid

Analysis Batch: 65282

Client Sample ID: CS-1 (4.5')

Prep Type: Total/NA

Prep Batch: 65276

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	1010	1030		mg/Kg		99	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U F2	1010	1187	F2	mg/Kg		116	70 - 130	24	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	118		70 - 130								
o-Terphenyl	95		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64954/1-A

Matrix: Solid

Analysis Batch: 65186

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			10/21/23 01:56	1

Lab Sample ID: LCS 880-64954/2-A

Matrix: Solid

Analysis Batch: 65186

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	250.4		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-64954/3-A

Matrix: Solid

Analysis Batch: 65186

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	251.2		mg/Kg		100	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-34568-A-65-E MS

Matrix: Solid

Analysis Batch: 65186

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	55.7	F1	249	345.4	F1	mg/Kg		117	90 - 110

Lab Sample ID: 880-34568-A-65-F MSD

Matrix: Solid

Analysis Batch: 65186

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	55.7	F1	249	346.2	F1	mg/Kg		117	90 - 110	0	20

Lab Sample ID: MB 880-65241/1-A

Matrix: Solid

Analysis Batch: 65349

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			10/23/23 08:33	1

Lab Sample ID: LCS 880-65241/2-A

Matrix: Solid

Analysis Batch: 65349

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.0		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-65241/3-A

Matrix: Solid

Analysis Batch: 65349

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	254.7		mg/Kg		102	90 - 110	5	20

Lab Sample ID: 880-34724-A-31-B MS

Matrix: Solid

Analysis Batch: 65349

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	8520		2520	10920		mg/Kg		96	90 - 110

Lab Sample ID: 880-34724-A-31-C MSD

Matrix: Solid

Analysis Batch: 65349

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8520		2520	10890		mg/Kg		94	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 65275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34727-1	CS-1 (4.5')	Total/NA	Solid	5035	
880-34727-2	CS-2 (4.5')	Total/NA	Solid	5035	
880-34727-3	CS-3 (4.5')	Total/NA	Solid	5035	
880-34727-4	CS-4 (4.5')	Total/NA	Solid	5035	
880-34727-5	CS-5 (4.5')	Total/NA	Solid	5035	
880-34727-6	CS-6 (4.5')	Total/NA	Solid	5035	
880-34727-7	CS-7 (4.5')	Total/NA	Solid	5035	
880-34727-8	SW-1 (4.5')	Total/NA	Solid	5035	
880-34727-9	SW-2 (4.5')	Total/NA	Solid	5035	
880-34727-10	SW-3 (4.5')	Total/NA	Solid	5035	
MB 880-65275/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65275/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65275/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34727-1 MS	CS-1 (4.5')	Total/NA	Solid	5035	
880-34727-1 MSD	CS-1 (4.5')	Total/NA	Solid	5035	

Analysis Batch: 65321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34727-11	SW-4 (4.5')	Total/NA	Solid	8021B	65335
MB 880-65335/5-A	Method Blank	Total/NA	Solid	8021B	65335
LCS 880-65335/1-A	Lab Control Sample	Total/NA	Solid	8021B	65335
LCSD 880-65335/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65335
880-34727-11 MS	SW-4 (4.5')	Total/NA	Solid	8021B	65335
880-34727-11 MSD	SW-4 (4.5')	Total/NA	Solid	8021B	65335

Analysis Batch: 65322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34727-1	CS-1 (4.5')	Total/NA	Solid	8021B	65275
880-34727-2	CS-2 (4.5')	Total/NA	Solid	8021B	65275
880-34727-3	CS-3 (4.5')	Total/NA	Solid	8021B	65275
880-34727-4	CS-4 (4.5')	Total/NA	Solid	8021B	65275
880-34727-5	CS-5 (4.5')	Total/NA	Solid	8021B	65275
880-34727-6	CS-6 (4.5')	Total/NA	Solid	8021B	65275
880-34727-7	CS-7 (4.5')	Total/NA	Solid	8021B	65275
880-34727-8	SW-1 (4.5')	Total/NA	Solid	8021B	65275
880-34727-9	SW-2 (4.5')	Total/NA	Solid	8021B	65275
880-34727-10	SW-3 (4.5')	Total/NA	Solid	8021B	65275
MB 880-65275/5-A	Method Blank	Total/NA	Solid	8021B	65275
LCS 880-65275/1-A	Lab Control Sample	Total/NA	Solid	8021B	65275
LCSD 880-65275/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65275
880-34727-1 MS	CS-1 (4.5')	Total/NA	Solid	8021B	65275
880-34727-1 MSD	CS-1 (4.5')	Total/NA	Solid	8021B	65275

Prep Batch: 65335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34727-11	SW-4 (4.5')	Total/NA	Solid	5035	
MB 880-65335/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65335/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65335/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34727-11 MS	SW-4 (4.5')	Total/NA	Solid	5035	
880-34727-11 MSD	SW-4 (4.5')	Total/NA	Solid	5035	

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QC Association Summary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 65409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34727-1	CS-1 (4.5')	Total/NA	Solid	Total BTEX	
880-34727-2	CS-2 (4.5')	Total/NA	Solid	Total BTEX	
880-34727-3	CS-3 (4.5')	Total/NA	Solid	Total BTEX	
880-34727-4	CS-4 (4.5')	Total/NA	Solid	Total BTEX	
880-34727-5	CS-5 (4.5')	Total/NA	Solid	Total BTEX	
880-34727-6	CS-6 (4.5')	Total/NA	Solid	Total BTEX	
880-34727-7	CS-7 (4.5')	Total/NA	Solid	Total BTEX	
880-34727-8	SW-1 (4.5')	Total/NA	Solid	Total BTEX	
880-34727-9	SW-2 (4.5')	Total/NA	Solid	Total BTEX	
880-34727-10	SW-3 (4.5')	Total/NA	Solid	Total BTEX	
880-34727-11	SW-4 (4.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 65276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34727-1	CS-1 (4.5')	Total/NA	Solid	8015NM Prep	
880-34727-2	CS-2 (4.5')	Total/NA	Solid	8015NM Prep	
880-34727-3	CS-3 (4.5')	Total/NA	Solid	8015NM Prep	
880-34727-4	CS-4 (4.5')	Total/NA	Solid	8015NM Prep	
880-34727-5	CS-5 (4.5')	Total/NA	Solid	8015NM Prep	
880-34727-6	CS-6 (4.5')	Total/NA	Solid	8015NM Prep	
880-34727-7	CS-7 (4.5')	Total/NA	Solid	8015NM Prep	
880-34727-8	SW-1 (4.5')	Total/NA	Solid	8015NM Prep	
880-34727-9	SW-2 (4.5')	Total/NA	Solid	8015NM Prep	
880-34727-10	SW-3 (4.5')	Total/NA	Solid	8015NM Prep	
880-34727-11	SW-4 (4.5')	Total/NA	Solid	8015NM Prep	
MB 880-65276/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65276/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65276/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34727-1 MS	CS-1 (4.5')	Total/NA	Solid	8015NM Prep	
880-34727-1 MSD	CS-1 (4.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 65282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34727-1	CS-1 (4.5')	Total/NA	Solid	8015B NM	65276
880-34727-2	CS-2 (4.5')	Total/NA	Solid	8015B NM	65276
880-34727-3	CS-3 (4.5')	Total/NA	Solid	8015B NM	65276
880-34727-4	CS-4 (4.5')	Total/NA	Solid	8015B NM	65276
880-34727-5	CS-5 (4.5')	Total/NA	Solid	8015B NM	65276
880-34727-6	CS-6 (4.5')	Total/NA	Solid	8015B NM	65276
880-34727-7	CS-7 (4.5')	Total/NA	Solid	8015B NM	65276
880-34727-8	SW-1 (4.5')	Total/NA	Solid	8015B NM	65276
880-34727-9	SW-2 (4.5')	Total/NA	Solid	8015B NM	65276
880-34727-10	SW-3 (4.5')	Total/NA	Solid	8015B NM	65276
880-34727-11	SW-4 (4.5')	Total/NA	Solid	8015B NM	65276
MB 880-65276/1-A	Method Blank	Total/NA	Solid	8015B NM	65276
LCS 880-65276/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65276
LCSD 880-65276/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65276
880-34727-1 MS	CS-1 (4.5')	Total/NA	Solid	8015B NM	65276
880-34727-1 MSD	CS-1 (4.5')	Total/NA	Solid	8015B NM	65276

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 65374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34727-1	CS-1 (4.5')	Total/NA	Solid	8015 NM	
880-34727-2	CS-2 (4.5')	Total/NA	Solid	8015 NM	
880-34727-3	CS-3 (4.5')	Total/NA	Solid	8015 NM	
880-34727-4	CS-4 (4.5')	Total/NA	Solid	8015 NM	
880-34727-5	CS-5 (4.5')	Total/NA	Solid	8015 NM	
880-34727-6	CS-6 (4.5')	Total/NA	Solid	8015 NM	
880-34727-7	CS-7 (4.5')	Total/NA	Solid	8015 NM	
880-34727-8	SW-1 (4.5')	Total/NA	Solid	8015 NM	
880-34727-9	SW-2 (4.5')	Total/NA	Solid	8015 NM	
880-34727-10	SW-3 (4.5')	Total/NA	Solid	8015 NM	
880-34727-11	SW-4 (4.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34727-10	SW-3 (4.5')	Soluble	Solid	DI Leach	
880-34727-11	SW-4 (4.5')	Soluble	Solid	DI Leach	
MB 880-64954/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64954/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64954/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34568-A-65-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-34568-A-65-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 65186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34727-10	SW-3 (4.5')	Soluble	Solid	300.0	64954
880-34727-11	SW-4 (4.5')	Soluble	Solid	300.0	64954
MB 880-64954/1-A	Method Blank	Soluble	Solid	300.0	64954
LCS 880-64954/2-A	Lab Control Sample	Soluble	Solid	300.0	64954
LCSD 880-64954/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64954
880-34568-A-65-E MS	Matrix Spike	Soluble	Solid	300.0	64954
880-34568-A-65-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64954

Leach Batch: 65241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34727-1	CS-1 (4.5')	Soluble	Solid	DI Leach	
880-34727-2	CS-2 (4.5')	Soluble	Solid	DI Leach	
880-34727-3	CS-3 (4.5')	Soluble	Solid	DI Leach	
880-34727-4	CS-4 (4.5')	Soluble	Solid	DI Leach	
880-34727-5	CS-5 (4.5')	Soluble	Solid	DI Leach	
880-34727-6	CS-6 (4.5')	Soluble	Solid	DI Leach	
880-34727-7	CS-7 (4.5')	Soluble	Solid	DI Leach	
880-34727-8	SW-1 (4.5')	Soluble	Solid	DI Leach	
880-34727-9	SW-2 (4.5')	Soluble	Solid	DI Leach	
MB 880-65241/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65241/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65241/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34724-A-31-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-34724-A-31-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

HPLC/IC

Analysis Batch: 65349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34727-1	CS-1 (4.5')	Soluble	Solid	300.0	65241
880-34727-2	CS-2 (4.5')	Soluble	Solid	300.0	65241
880-34727-3	CS-3 (4.5')	Soluble	Solid	300.0	65241
880-34727-4	CS-4 (4.5')	Soluble	Solid	300.0	65241
880-34727-5	CS-5 (4.5')	Soluble	Solid	300.0	65241
880-34727-6	CS-6 (4.5')	Soluble	Solid	300.0	65241
880-34727-7	CS-7 (4.5')	Soluble	Solid	300.0	65241
880-34727-8	SW-1 (4.5')	Soluble	Solid	300.0	65241
880-34727-9	SW-2 (4.5')	Soluble	Solid	300.0	65241
MB 880-65241/1-A	Method Blank	Soluble	Solid	300.0	65241
LCS 880-65241/2-A	Lab Control Sample	Soluble	Solid	300.0	65241
LCSD 880-65241/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65241
880-34724-A-31-B MS	Matrix Spike	Soluble	Solid	300.0	65241
880-34724-A-31-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	65241

Lab Chronicle

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Client Sample ID: CS-1 (4.5')

Lab Sample ID: 880-34727-1

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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	65275	10/21/23 15:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65322	10/23/23 12:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65409	10/23/23 12:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			65374	10/22/23 11:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 11:12	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	65241	10/20/23 17:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65349	10/23/23 10:48	CH	EET MID

Client Sample ID: CS-2 (4.5')

Lab Sample ID: 880-34727-2

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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	65275	10/21/23 15:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65322	10/23/23 13:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65409	10/23/23 13:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			65374	10/22/23 12:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 12:18	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	65241	10/20/23 17:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65349	10/23/23 10:54	CH	EET MID

Client Sample ID: CS-3 (4.5')

Lab Sample ID: 880-34727-3

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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	65275	10/21/23 15:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65322	10/23/23 13:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65409	10/23/23 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			65374	10/22/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 12:40	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	65241	10/20/23 17:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65349	10/23/23 11:11	CH	EET MID

Client Sample ID: CS-4 (4.5')

Lab Sample ID: 880-34727-4

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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	65275	10/21/23 15:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65322	10/23/23 13:41	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65409	10/23/23 13:41	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Client Sample ID: CS-4 (4.5')

Lab Sample ID: 880-34727-4

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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			65374	10/22/23 13:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 13:02	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	65241	10/20/23 17:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65349	10/23/23 11:16	CH	EET MID

Client Sample ID: CS-5 (4.5')

Lab Sample ID: 880-34727-5

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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	65275	10/21/23 15:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65322	10/23/23 14:02	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65409	10/23/23 14:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			65374	10/22/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 13:25	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	65241	10/20/23 17:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65349	10/23/23 11:22	CH	EET MID

Client Sample ID: CS-6 (4.5')

Lab Sample ID: 880-34727-6

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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	65275	10/21/23 15:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65322	10/23/23 14:22	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65409	10/23/23 14:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			65374	10/22/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 13:47	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	65241	10/20/23 17:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65349	10/23/23 11:28	CH	EET MID

Client Sample ID: CS-7 (4.5')

Lab Sample ID: 880-34727-7

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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	65275	10/21/23 15:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65322	10/23/23 14:43	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65409	10/23/23 14:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			65374	10/22/23 14:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 14:09	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Client Sample ID: CS-7 (4.5')

Lab Sample ID: 880-34727-7

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	65241	10/20/23 17:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65349	10/23/23 11:33	CH	EET MID

Client Sample ID: SW-1 (4.5')

Lab Sample ID: 880-34727-8

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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	65275	10/21/23 15:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65322	10/23/23 15:03	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65409	10/23/23 15:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			65374	10/22/23 14:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 14:32	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	65241	10/20/23 17:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65349	10/23/23 11:39	CH	EET MID

Client Sample ID: SW-2 (4.5')

Lab Sample ID: 880-34727-9

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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	65275	10/21/23 15:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65322	10/23/23 15:24	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65409	10/23/23 15:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			65374	10/22/23 14:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 14:53	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	65241	10/20/23 17:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65349	10/23/23 11:45	CH	EET MID

Client Sample ID: SW-3 (4.5')

Lab Sample ID: 880-34727-10

Date Collected: 10/20/23 00:00

Matrix: Solid

Date Received: 10/20/23 15:37

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	65275	10/21/23 15:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65322	10/23/23 15:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65409	10/23/23 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			65374	10/22/23 15:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 15:15	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	64954	10/20/23 17:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65186	10/23/23 10:03	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Client Sample ID: SW-4 (4.5')
Date Collected: 10/20/23 00:00
Date Received: 10/20/23 15:37

Lab Sample ID: 880-34727-11
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			4.99 g	5 mL	65335	10/23/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65321	10/23/23 14:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65409	10/23/23 14:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			65374	10/22/23 16:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 16:00	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	64954	10/20/23 17:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65186	10/23/23 10:09	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
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

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

Method Summary

Client: Carmona Resources
Project/Site: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
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: Black Pearl Fed Com 1H (09.28.23)

Job ID: 880-34727-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34727-1	CS-1 (4.5')	Solid	10/20/23 00:00	10/20/23 15:37
880-34727-2	CS-2 (4.5')	Solid	10/20/23 00:00	10/20/23 15:37
880-34727-3	CS-3 (4.5')	Solid	10/20/23 00:00	10/20/23 15:37
880-34727-4	CS-4 (4.5')	Solid	10/20/23 00:00	10/20/23 15:37
880-34727-5	CS-5 (4.5')	Solid	10/20/23 00:00	10/20/23 15:37
880-34727-6	CS-6 (4.5')	Solid	10/20/23 00:00	10/20/23 15:37
880-34727-7	CS-7 (4.5')	Solid	10/20/23 00:00	10/20/23 15:37
880-34727-8	SW-1 (4.5')	Solid	10/20/23 00:00	10/20/23 15:37
880-34727-9	SW-2 (4.5')	Solid	10/20/23 00:00	10/20/23 15:37
880-34727-10	SW-3 (4.5')	Solid	10/20/23 00:00	10/20/23 15:37
880-34727-11	SW-4 (4.5')	Solid	10/20/23 00:00	10/20/23 15:37



880-34727 Chain of Custody

Page 1 or 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 ☐ Rowfields ☐ IRC ☐ perfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADaPT ☐ Other	

ANALYSIS REQUEST										
Project Name:	Black Pearl Fed Com 1H (09.28.23)	Pres. Code								
Project Number:	2155	Turn Around	☐ Routine ☒ Rush	24 HR						
Project Location:	Lea County, New Mexico	Due Date	24 HR							
Sampler's Name:	FV									
PO #:										
SAMPLE RECEIPT Received Intact: Temp Blank: Yes No Wet Ice. Yes No Cooler Custody Seals: Yes No M/A Thermometer ID: 1-20 Sample Custody Seals: Yes No M/A Temperature Reading: 3.8 Total Containers: Corrected Temperature: 1.0										
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			
CS-1 (4.5')	10/20/2023		X		Comp	1	BTX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	
CS-2 (4.5')	10/20/2023		X		Comp	1				
CS-3 (4.5')	10/20/2023		X		Comp	1				
CS-4 (4.5')	10/20/2023		X		Comp	1				
CS-5 (4.5')	10/20/2023		X		Comp	1				
CS-6 (4.5')	10/20/2023		X		Comp	1				
CS-7 (4.5')	10/20/2023		X		Comp	1				
SW-1 (4.5')	10/20/2023		X		Comp	1				
SW-2 (4.5')	10/20/2023		X		Comp	1				
SW-3 (4.5')	10/20/2023		X		Comp	1				

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

10/23/2023

34727

Work Order No: _____

Page 2 of 2[illegible]

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34727-1

SDG Number: Lea County, New Mexico

Login Number: 34727

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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

APPENDIX F

CARMONA RESOURCES



(28)

BLM SERIAL #:

COMPANY REFERENCE:

3.3 Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sand love grass (<i>Eragrostis trichodes</i>)	1.0
Plains bristlegrass (<i>Setaria macrostachya</i>)	2.0

*Pounds of pure live seed: Pounds of seed x percent purity x percent germination = pounds pure live seed

Soil Map—Lea County, New Mexico



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

10/24/2023
Page 1 of 3

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
KM	Kermit soils and Dune land, 0 to 12 percent slopes	0.1	100.0%
Totals for Area of Interest		0.1	100.0%

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Lea County, New Mexico

Lea County, New Mexico

KM—Kermit soils and Dune land, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpx

Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 15 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent

Dune land: 44 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Concave, convex, linear

Across-slope shape: Convex

Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand

C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 5 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 3 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: Low (about 3.1 inches)

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Lea County, New Mexico

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No

Description of Dune Land**Setting**

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Concave, convex, linear

Across-slope shape: Convex

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand

C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydrologic Soil Group: A

Hydric soil rating: No

Minor Components**Palomas**

Percent of map unit: 3 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Pyote

Percent of map unit: 3 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Wink

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Lea County, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023

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 282808

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 282808
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	1/8/2024