CARMONA RESOURCES

SITE INFORMATION

Closure Report
Lusk Deep Unit 028H (10.24.2023)
Incident #: nAPP2333132247
Lea County, New Mexico
Unit K Sec 18 T19S R32E
32.6572°, -103.8091°

Produced Water Release
Point of Release: Two pinhole leaks from a possible gunshot
Release Date: 10.24.2023
Volume Released: 6.7368 Barrels of Produced Water
Volume Recovered: 0 Barrels of Produced Water

CARMONA RESOURCES

Prepared for:
Concho Operating, LLC
15 West London Road
Loving, New Mexico 88256

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

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

CARMONA RESOURCES

TABLE OF CONTENTS

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

CARMONA RESOURCES

December 27, 2023

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

Re: Closure Report
Lusk Deep Unit 028H (10.24.2023)
Concho Operating, LLC
Site Location: Unit K, S18, T19S, R32E
(Lat 32.6572º, Long -103.8091º)
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 assessment activities for the Lusk Deep Unit 028H. The site is located at 32.6572, -103.8091 within Unit K, S18, T19S, R32E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on October 24, 2023, from a pinhole leak caused by a possible gunshot. It resulted in approximately six point seven three six eight (6.7368) barrels of produced water being released and zero (0) barrels of produced water being The impacted area occurred in the pasture, shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The closest well is approximately 0.71 miles Southeast of the site in S19, T19S, R32E and was drilled in 1982. The well has a reported depth to groundwater of 102 feet below the ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix D.

3.0 NMAC Regulatory Criteria

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, thefollowing 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 November 20, 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 sample points (H-1 through H-4) were installed to total depths ranging from surface to 4’ bgs inside and surrounding the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and

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

CARMONA RESOURCES

transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Vertical Delineation

Vertical delineation was not achieved due to dense geological formation at 4' bgs. Refer to Table 1.

Horizontal Delineation

The areas of H-1 through H-4 were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

5.0 Remediation/Reclamation 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 November 28, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 was excavated to a depth of 5.0'. A total of five (5) confirmation floor samples were collected (CS-1 through CS-5), and six (6) sidewall samples (SW-1 through SW-6) 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 regulatory requirements for TPH, BTEX, and chloride. Refer to Table 2.

Approximately 220 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Reclamation Activities

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. The backfilled areas were seeded On December 8, 2023. The appropriate pounds of pure live seed per acre were used. The seeds were applied via hand broadcasting method due to the area being less than ¼ acres. The surrounding topsoil was raked onto the seed to aid the vegetation process. The seed mixture used was BLM Seed Mix #2 (See attachments in Appendix F).

7.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. The final C-141 is attached, and COG formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,
Carmona Resources, LLC

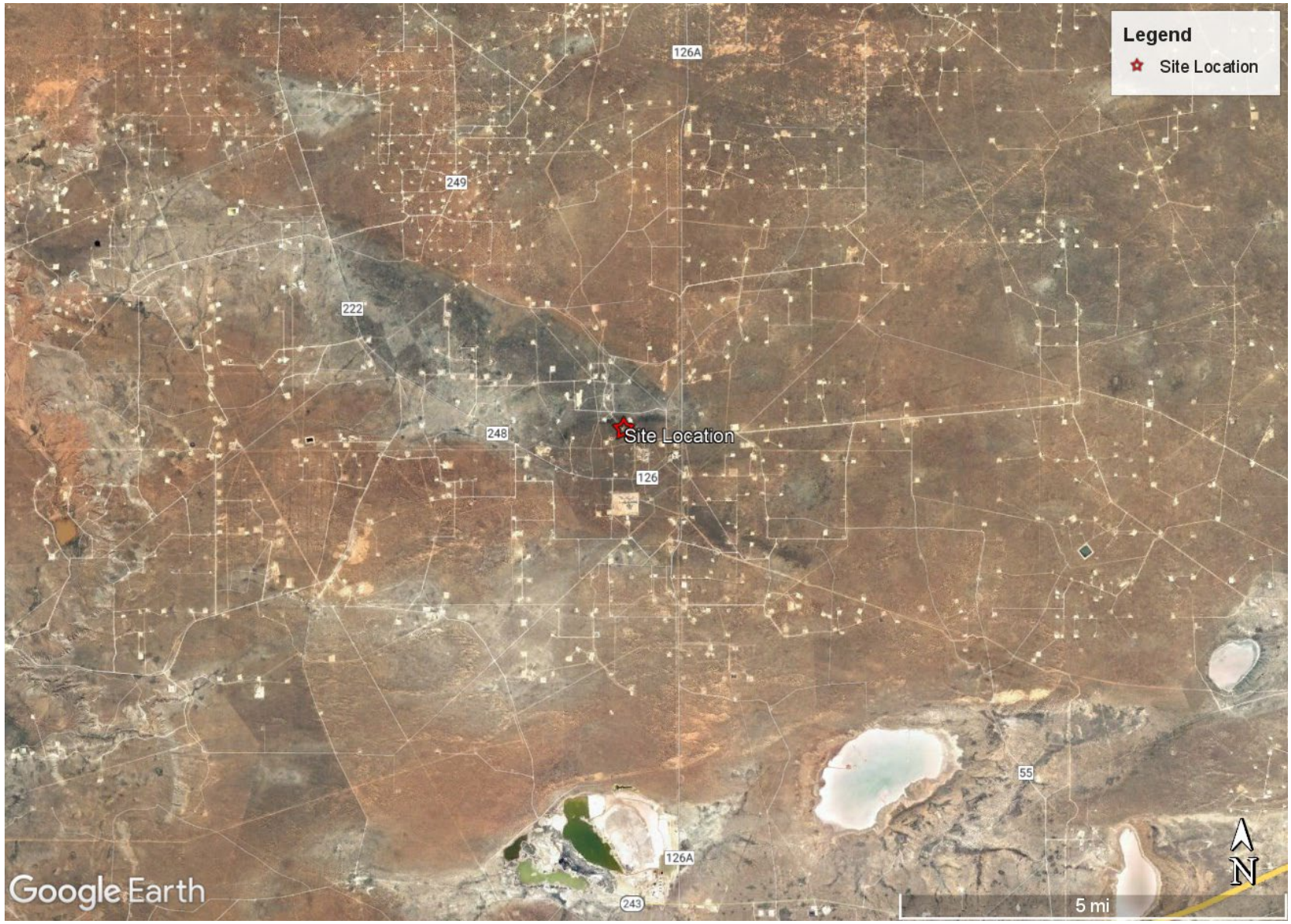
Mike Carmona
Environmental Manager

Conner Moehring
Sr. Project Manager

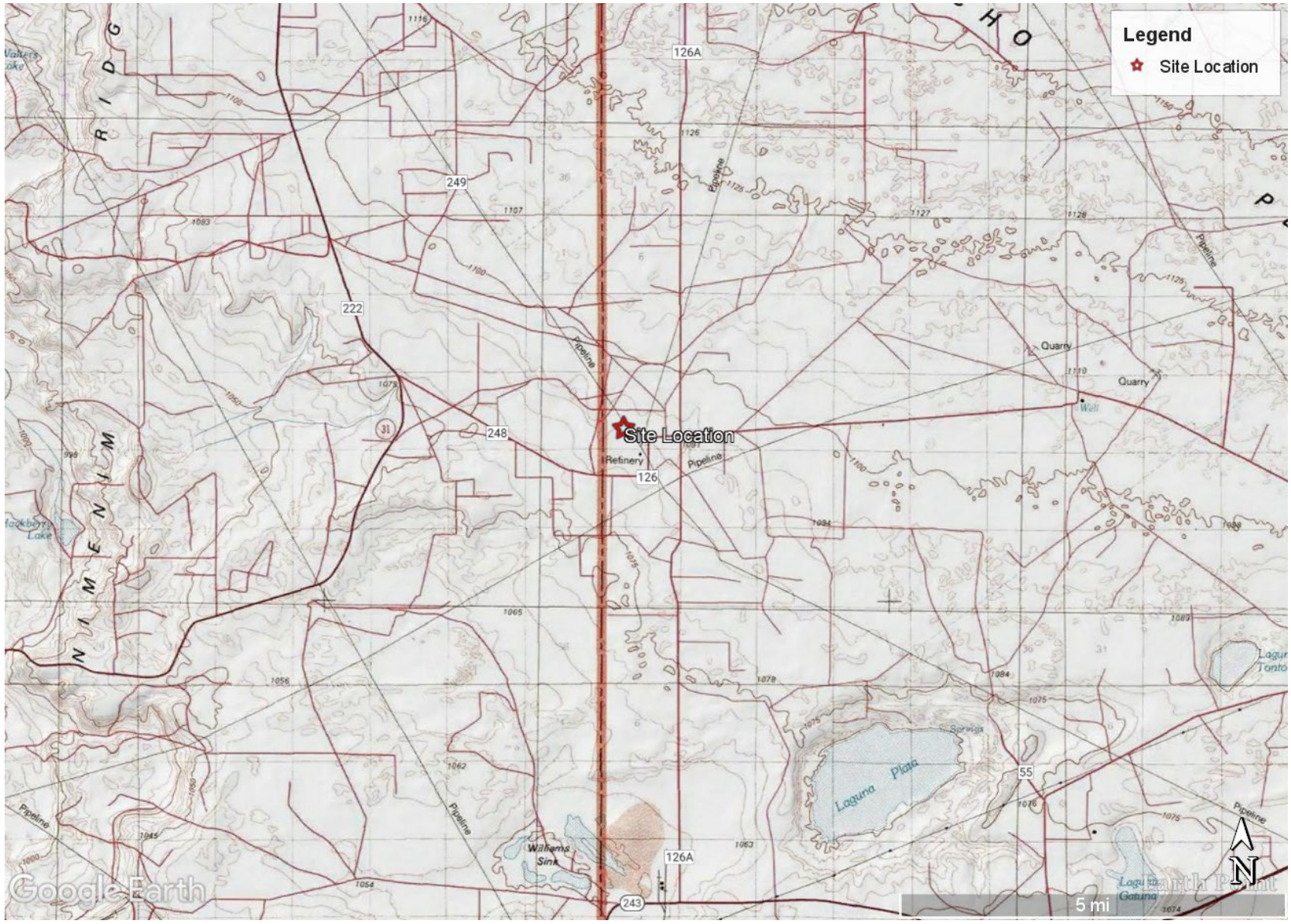
310 West Wall Street, Suite 500
Midland TX, 79701
432.813.1992

FIGURES

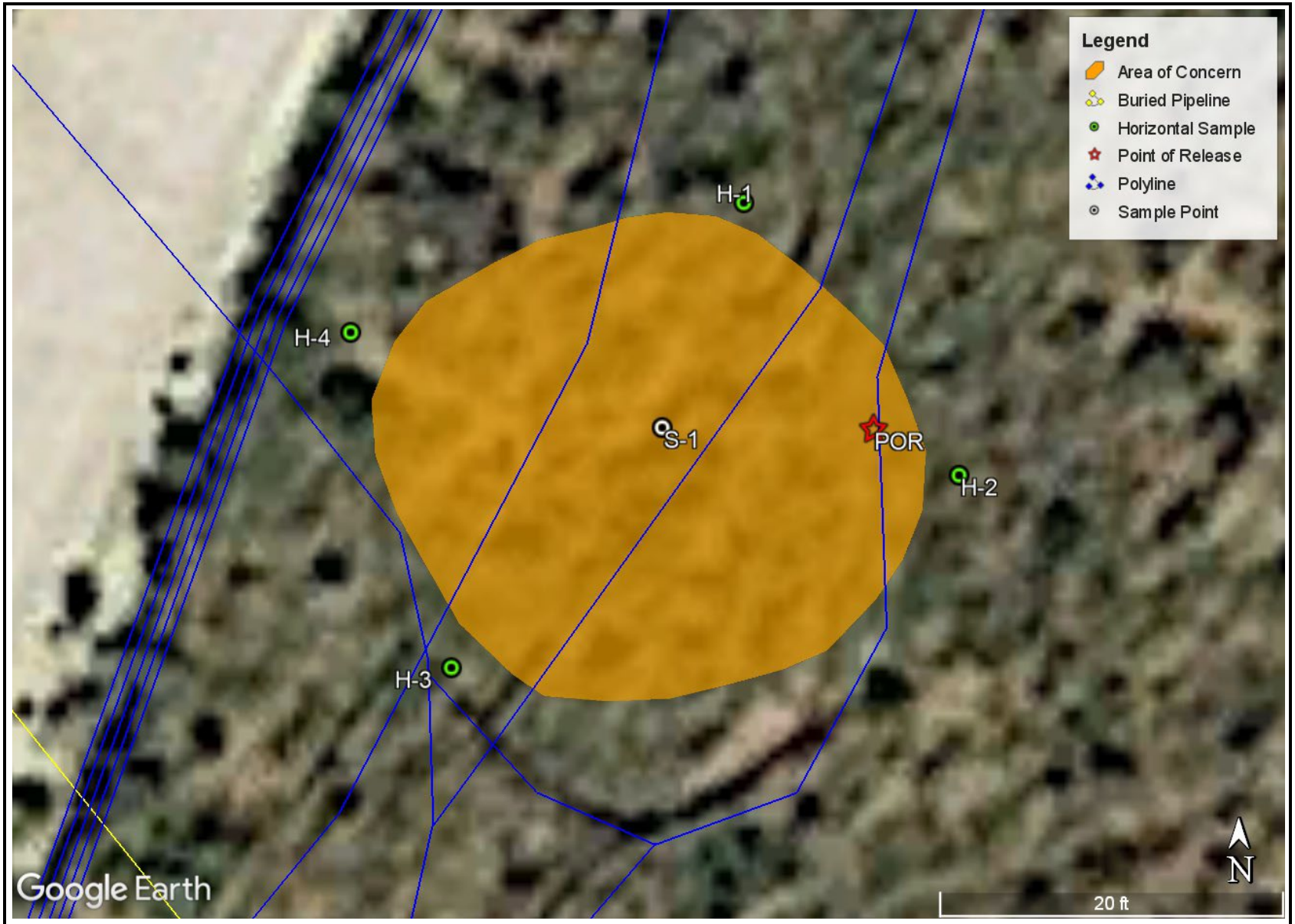
CARMONA RESOURCES



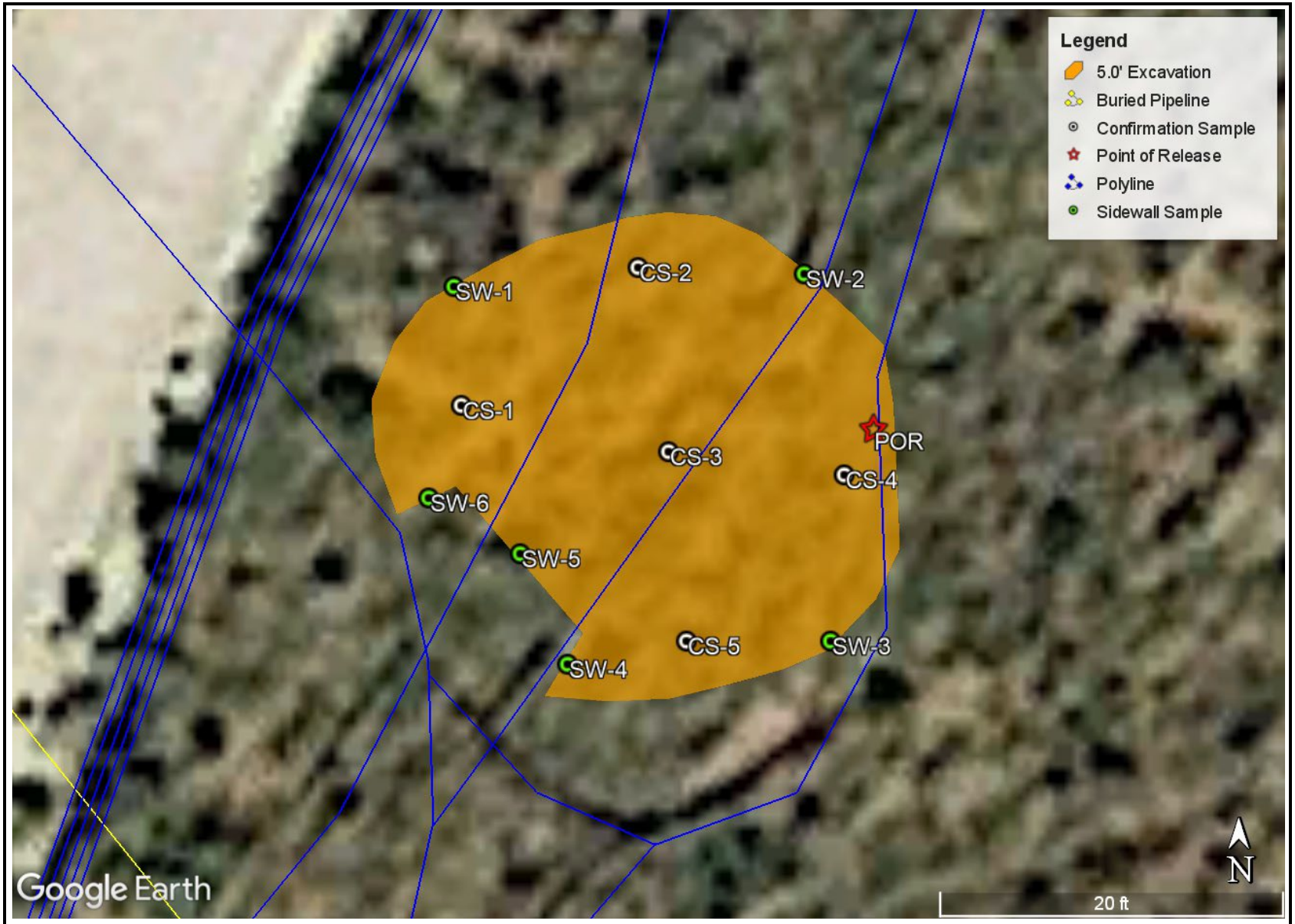
OVERVIEW MAP COG OPERATING, LLC LUSK DEEP UNIT 028H (10.24.2023) LEA COUNTY, NEW MEXICO 32.6572°, 103.8091°	CARMONA RESOURCES	FIGURE 1



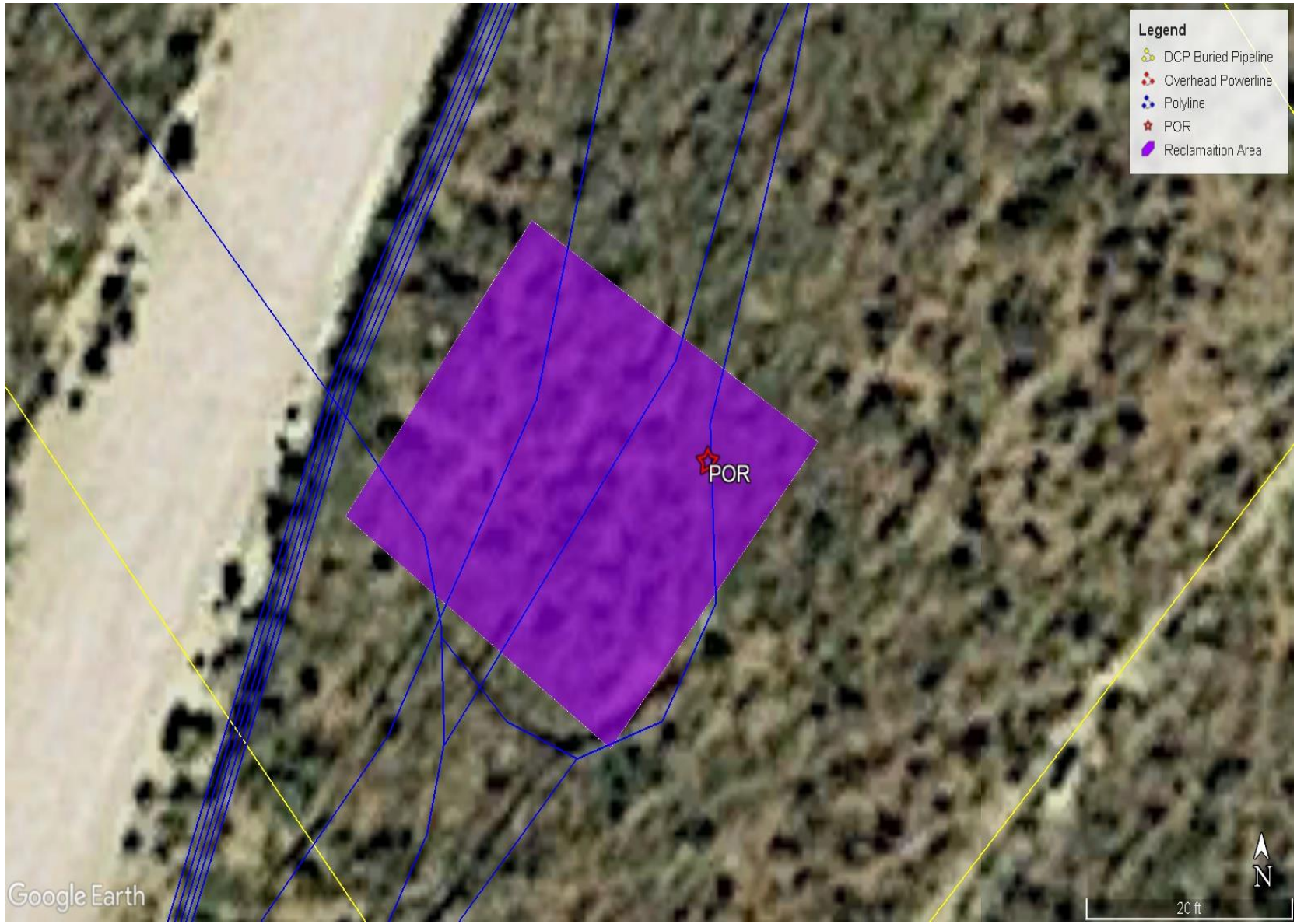
TOPOGRAPHIC MAP COG OPERATING, LLC LUSK DEEP UNIT 028H (10.24.2023) LEA COUNTY, NEW MEXICO 32.6572°, 103.8091°	CARMONA RESOURCES	FIGURE 2



SAMPLE LOCATION MAP COG OPERATING, LLC LUSK DEEP UNIT 028H (10.24.2023) LEA COUNTY, NEW MEXICO 32.6572°, 103.8091°	CARMONA RESOURCES	FIGURE 3



EXCAVATION DEPTH MAP COG OPERATING, LLC LUSK DEEP UNIT 028H (10.24.2023) LEA COUNTY, NEW MEXICO 32.6572°, 103.8091°	CARMONA RESOURCES	FIGURE 4



RECLAMATION AREA MAP COG OPERATING, LLC LUSK DEEP UNIT 028H (10.24.2023) LEA COUNTY, NEW MEXICO 32.6572°, 103.8091°	CARMONA RESOURCES	FIGURE 5

APPENDIX A

CARMONA RESOURCES

Table 1
Conoco Phillips
Lusk Deep Unit 028H (10.24.23)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	11/20/2023	0-1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**1,730**
	"	1.5	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**4,750**
	"	2.0	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	**6,220**
	"	3.0	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**6,810**
	"	4.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**10,100**
H-1	11/20/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	374
H-2	11/20/2023	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	134
H-3	11/20/2023	0-0.5	<49.6	<49.6	<49.6	<49.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	204
H-4	11/20/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	44.4
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

(H) Horizontal Sample

Removed

Table 2
Conoco Phillips
Lusk Deep Unit 028H (10.24.23)
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	12/1/2023	5'	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	15.4
CS-2	12/1/2023	5'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	219
CS-3	12/1/2023	5'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	18.5
CS-4	12/1/2023	5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	89.8
CS-5	12/1/2023	5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	147
SW-1	12/1/2023	5'	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	27.2
SW-2	12/1/2023	5'	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<4.95
SW-3	12/1/2023	5'	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.96
SW-4	12/1/2023	5'	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	35.3
SW-5	12/1/2023	5'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	51.8
SW-6	12/1/2023	5'	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	25.2
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 Floor Sample

(SW) Confirmation Sidewall Sample

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

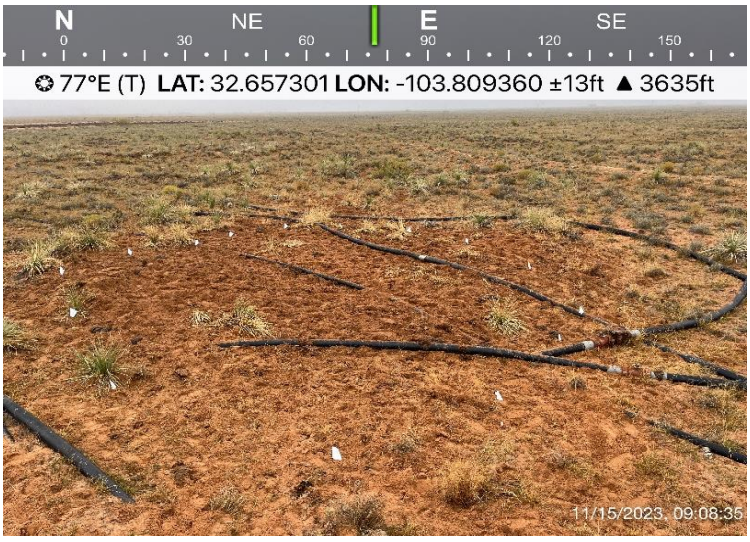
Concho Operating, LLC

Photograph No. 1

Facility: Lusk Deep Unit 028H (10.24.2023)

County: Lea County, New Mexico

Description:
View East, area of release.



Photograph No. 2

Facility: Lusk Deep Unit 028H (10.24.2023)

County: Lea County, New Mexico

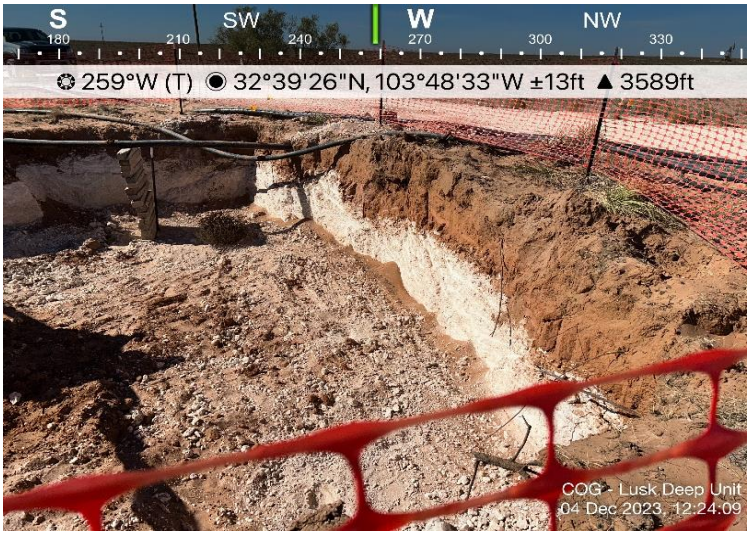
Description:
View Southeast, area of CS-1 through CS-3.

Photograph No. 3

Facility: Lusk Deep Unit 028H (10.24.2023)

County: Lea County, New Mexico

Description:
View West, area of CS-1 and CS-2.



PHOTOGRAPHIC LOG

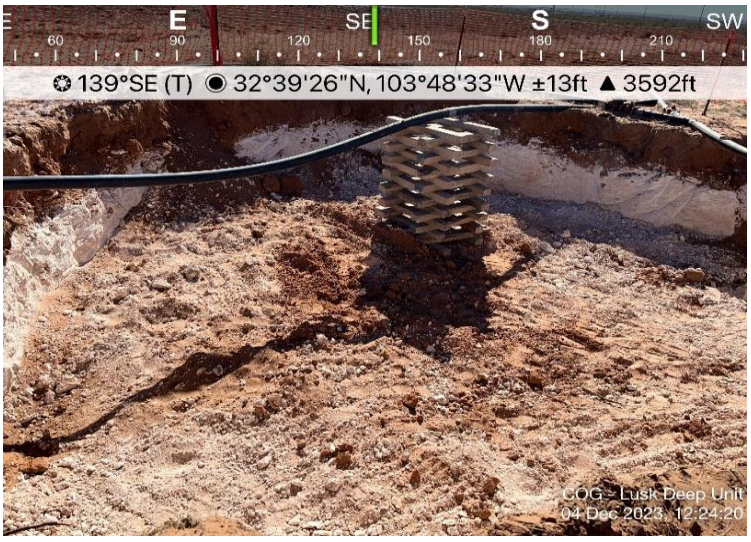
Concho Operating, LLC

Photograph No. 4

Facility: Lusk Deep Unit 028H (10.24.2023)

County: Lea County, New Mexico

Description:
View Southeast, area of CS-3 through CS-5.



Photograph No. 5

Facility: Lusk Deep Unit 028H (10.24.2023)

County: Lea County, New Mexico

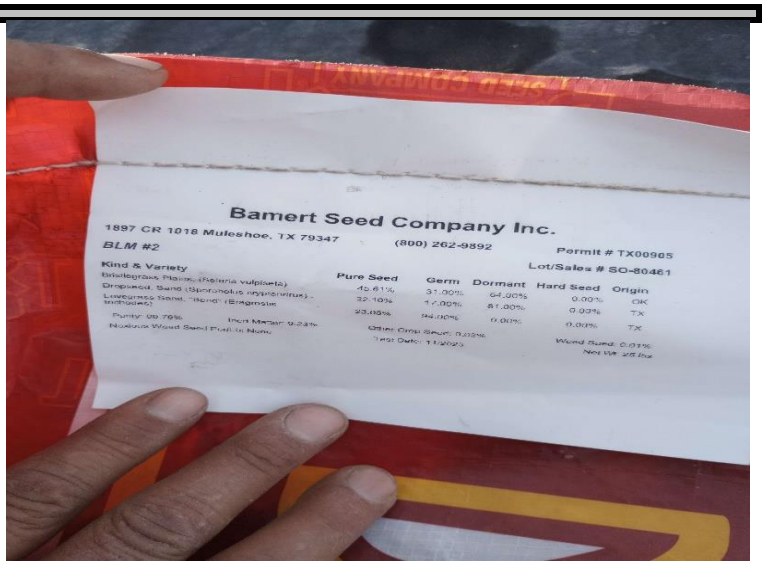
Description:
View North, area of backfilled area.

Photograph No. 6

Facility: Lusk Deep Unit 028H (10.24.2023)

County: Lea County, New Mexico

Description:
View of the seed mixture that was used to reseed the excavation area.



APPENDIX C

CARMONA RESOURCES

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name _____ Title: _____

Signature: __ _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Received by OCD: 1/25/2024 9:54:33 AM

Spill Calculation - Subsurface Spill - Cylinder

Convert Irregular shape into a series of rectangles	Diameter (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%.)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	12.0	24.0	Off-Pad	13.69%	40.26	5.51
Rectangle B	8.0	12.0	Off-Pad	13.69%	8.95	1.22
Rectangle C					0.00	
Rectangle D					0.00	
Rectangle E					0.00	
Rectangle F					0.00	
Rectangle G					0.00	
Rectangle H					0.00	
Rectangle I					0.00	
Rectangle J					0.00	
				Total Subsurface Volume Release:		6.7368

[redacted]

Remediation Recommendation

Total Estimated Contaminated Soil, uncompacted, 25% (yd^3.)	Current Rule of Thumb RMR Handover Volume, (yd^3.)
10.47	750
2.33	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
12.79	BU

Released to Imaging: 4/1/2024 7:45:25 AM

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Jacqui Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: Jacqui Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Conner Moehring

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, November 28, 2023 4:28 PM
To: Conner Moehring
Cc: Mike Carmona; Devin Dominguez; Clint Merritt; Velez, Nelson, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] COG - Lusk Deep Unit 028H (10.24.23) - Sampling Notification

Good afternoon 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: Tuesday, November 28, 2023 2:49 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>
Subject: [EXTERNAL] COG - Lusk Deep Unit 028H (10.24.23) - Sampling Notification

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

All,

This email serves as a notification for confirmation sampling on the COG – Lusk Deep Unit 028H (10.24.23). Sampling is scheduled to begin on Thursday, November 30, 2023, around 3:00 p.m. Mountain Time and continue through the week. Carmona Resources personnel will be on-site to collect the confirmation samples.

Incident Number: nAPP2333132247

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

APPENDIX D

CARMONA RESOURCES

Nearest Water Well

COG Operating

Legend

- 0.50 Mile Radius
- 0.71 Miles
- 1.06 Miles
- 1.06 Mlles
- Groundwater Determination Bore
- Lusk Deep Unit 028H (10.24.2023)
- NMSEO Water Well

Lusk Deep Unit 028H (10.24.2023)

70 GWDB' - Drilled 2017

102' - Drilled 1982

345' - Drilled 1982

N

4000 ft

Low Karst

COG Operating

Legend

Low

Lusk Deep Unit 028H (10.24.2023)

Lusk Deep Unit 028H (10.24.2023)

Google Earth

N

1 mi

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

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

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

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

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00563 POD1	CP	LE	1	1	2	19	19S	32E	612118	3613376*	691	300		
CP 00640 POD1	CP	LE		2	2	19	19S	32E	612621	3613280*	1132	260	102	158
CP 00639 POD1	CP	LE		3	1	20	19S	32E	613029	3612880*	1697	350	345	5
CP 01656 POD2	CP	LE	3	4	3	17	19S	32E	613364	3613648	1703	70		
CP 01656 POD1	CP	LE	3	4	3	17	19S	32E	613368	3613646	1708	70		
CP 01656 POD3	CP	LE	3	4	3	17	19S	32E	613374	3613633	1716	30		
CP 00642 POD1	CP	ED		2	2	25	19S	31E	611025	3611657*	2347	250		
L 15415	L	LE	3	3	3	05	19S	32E	612912	3616830	3168	55		
CP 01939 POD1	CP	ED	2	4	2	26	19S	31E	609488	3611347	3372			

Average Depth to Water: **223 feet**

Minimum Depth: **102 feet**

Maximum Depth: **345 feet**

Record Count: 9

UTMNAD83 Radius Search (in meters):

Easting (X): 611680 **Northing (Y):** 3613911 **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.

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00640 POD1		2	2	19	19S	32E	612621	3613280*

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

***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.

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
(POD 2) LUSK DEEP UNIT A #19 SB-2	CP-1656
WELL OWNER NAME(S)	PHONE (OPTIONAL)
TETRA TECH	
WELL OWNER MAILING ADDRESS	CITY / STATE / ZIP
4000 N.BIG SPRING ST, STE 401	Midland / Tx / 79705

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	39	16.7	N
LONGITUDE	103	47	28.1	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

NE 1/4 OF SW 1/4 OF SE 1/4 OF SW 1/4 OF SECTION 17, TOWNSHIP 19S, RANGE 32E

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1711	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
3-28-17	3-28-17	70'	70'	N/A

COMPLETED WELL IS: ( ) ARTESIAN (•) DRY HOLE ( ) SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: (•) AIR ( ) MUD ADDITIVES – SPECIFY:

DRILLING METHOD: (•) ROTARY ( ) HAMMER ( ) CABLE TOOL ( ) OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	70'	6"	N/A	N/A	N/A	N/A	N/A

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2'	6"	.5 CEMENT		TOPLOAD
2	70'	6"	21 BAGS OF 3/8 HOLEPLUG		TOPLOAD

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	CP-1656	POD NUMBER	2	TRN NUMBER	606732
LOCATION	19S.32E.17.343				PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	1'	1'	TAN FINE SAND	○ Y ◉ N	N/A
1'	8'	7'	RED FINE SAND - SANDSTONE	○ Y ◉ N	N/A
8'	22'	14'	TAN FINE SAND - SANDSTONE CEMENT	○ Y ◉ N	N/A
22'	23'	1'	RED VERY FINE SAND - SANDSTONE CEMENT	○ Y ◉ N	N/A
23'	41'	18'	RED VERY FINE SAND - SANDSTONE CEMENT	○ Y ◉ N	N/A
41'	48'	7'	RED SANDY CLAY	○ Y ◉ N	N/A
48'	63'	15'	RED VERY FINE SAND - SANDSTONE	○ Y ◉ N	N/A
63'	70'	7'	RED SILTY CLAY	○ Y ◉ N	N/A
TD	70'			○ 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):

5. TEST; RIG SUPERVISION

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

MISCELLANEOUS INFORMATION:

SOIL BORING ONLY - SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING.
LEA COUNTY, NM

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

6. SIGNATURE

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:

Edward Bryan — Edward Bryan — 12/1/17

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

New Mexico Office of the State Engineer
Point of Diversion Summary

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

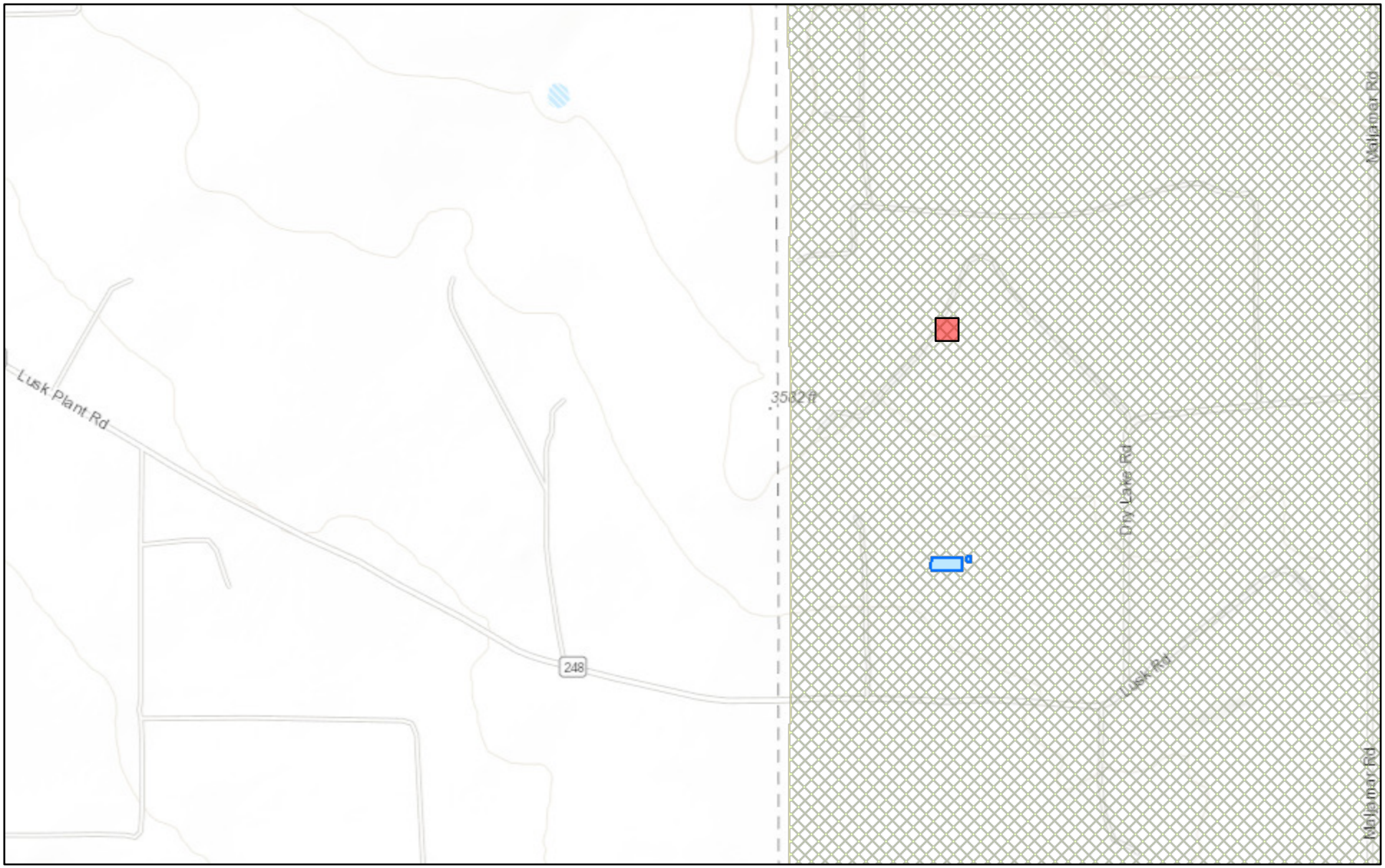
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00639 POD1		3	1	20	19S	32E	613029	3612880*

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

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

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

New Mexico NFHL Data



November 14, 2023

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

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

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

APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/28/2023 9:05:56 AM

JOB DESCRIPTION

Lusk Deep Unit 028H (10.24.23)
Lea County, New Mexico

JOB NUMBER

880-36054-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 4/1/2024 7:45:23 AM

my EOL

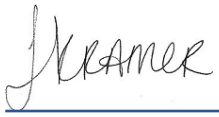
Eurofins Midland

Job Notes

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

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

Authorization



Generated
11/28/2023 9:05:56 AM

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

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Laboratory Job ID: 880-36054-1
SDG: Lea County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1
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
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1
SDG: Lea County, New Mexico

Job ID: 880-36054-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-36054-1

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 11/21/2023 10:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -6.1°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-1.0') (880-36054-1), S-1 (1.5') (880-36054-2), S-1 (2.0') (880-36054-3), S-1 (3.0') (880-36054-4) and S-1 (4.0') (880-36054-5).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-67438 and analytical batch 880-67556 was outside the upper control limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-67580 and analytical batch 880-67556 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 880-67569 and analytical batch 880-67601 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-1 (0-1.0') (880-36054-1), S-1 (1.5') (880-36054-2), S-1 (2.0') (880-36054-3), S-1 (3.0') (880-36054-4), S-1 (4.0') (880-36054-5), (820-10978-A-16-D), (820-10978-A-16-E MS) and (820-10978-A-16-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-67569 and analytical batch 880-67601 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
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: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (0-1.0')

Lab Sample ID: 880-36054-1
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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		11/21/23 14:52	11/22/23 09:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/23 14:52	11/22/23 09:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/21/23 14:52	11/22/23 09:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/21/23 14:52	11/22/23 09:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/21/23 14:52	11/22/23 09:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/21/23 14:52	11/22/23 09:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*11/21/23 14:52*	*11/22/23 09:12*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/21/23 14:52*	*11/22/23 09:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/23 09:12	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			11/22/23 16:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/21/23 14:44	11/22/23 16:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/21/23 14:44	11/22/23 16:30	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/21/23 14:44	11/22/23 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*146*	*S1+*	*70 - 130*	*11/21/23 14:44*	*11/22/23 16:30*	*1*
o-Terphenyl	*123*		*70 - 130*	*11/21/23 14:44*	*11/22/23 16:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1730**		25.0		mg/Kg			11/27/23 14:35	5

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-36054-2
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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		11/21/23 14:52	11/22/23 09:32	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/21/23 14:52	11/22/23 09:32	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/21/23 14:52	11/22/23 09:32	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/21/23 14:52	11/22/23 09:32	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/21/23 14:52	11/22/23 09:32	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/21/23 14:52	11/22/23 09:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*11/21/23 14:52*	*11/22/23 09:32*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*11/21/23 14:52*	*11/22/23 09:32*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-36054-2
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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			11/22/23 09:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			11/22/23 16:52	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	<50.1	U	50.1		mg/Kg		11/21/23 14:44	11/22/23 16:52	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		11/21/23 14:44	11/22/23 16:52	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		11/21/23 14:44	11/22/23 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*161*	*S1+*	*70 - 130*	*11/21/23 14:44*	*11/22/23 16:52*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*11/21/23 14:44*	*11/22/23 16:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4750**		50.5		mg/Kg			11/27/23 14:41	10

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-36054-3
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/21/23 14:52	11/22/23 09:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/21/23 14:52	11/22/23 09:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/21/23 14:52	11/22/23 09:53	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/21/23 14:52	11/22/23 09:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/21/23 14:52	11/22/23 09:53	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/21/23 14:52	11/22/23 09:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/21/23 14:52*	*11/22/23 09:53*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/21/23 14:52*	*11/22/23 09:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/22/23 09:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			11/22/23 17:15	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	<50.3	U	50.3		mg/Kg		11/21/23 14:44	11/22/23 17:15	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		11/21/23 14:44	11/22/23 17:15	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-36054-3
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/21/23 14:44	11/22/23 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*152*	*S1+*	*70 - 130*	*11/21/23 14:44*	*11/22/23 17:15*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*11/21/23 14:44*	*11/22/23 17:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6220**		49.5		mg/Kg			11/27/23 14:46	10

Client Sample ID: S-1 (3.0')

Lab Sample ID: 880-36054-4
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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		11/21/23 14:52	11/22/23 10:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/22/23 10:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/22/23 10:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/21/23 14:52	11/22/23 10:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/22/23 10:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/21/23 14:52	11/22/23 10:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*11/21/23 14:52*	*11/22/23 10:13*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*11/21/23 14:52*	*11/22/23 10:13*	*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			11/22/23 10:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			11/22/23 17:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		11/21/23 14:44	11/22/23 17:36	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/21/23 14:44	11/22/23 17:36	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/21/23 14:44	11/22/23 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*11/21/23 14:44*	*11/22/23 17:36*	*1*
o-Terphenyl	*121*		*70 - 130*	*11/21/23 14:44*	*11/22/23 17:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6810**		49.8		mg/Kg			11/27/23 14:52	10

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (4.0')

Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36054-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/22/23 10:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/22/23 10:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/22/23 10:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/21/23 14:52	11/22/23 10:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/22/23 10:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/21/23 14:52	11/22/23 10:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/21/23 14:52*	*11/22/23 10:34*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*11/21/23 14:52*	*11/22/23 10:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/22/23 10:34	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			11/22/23 17:58	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		11/21/23 14:44	11/22/23 17:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/21/23 14:44	11/22/23 17:58	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/21/23 14:44	11/22/23 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*11/21/23 14:44*	*11/22/23 17:58*	*1*
o-Terphenyl	*121*		*70 - 130*	*11/21/23 14:44*	*11/22/23 17:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10100**		99.0		mg/Kg			11/27/23 14:58	20

Surrogate Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
880-35979-A-31-F MS	Matrix Spike	104	101
880-35979-A-31-G MSD	Matrix Spike Duplicate	99	107
880-36054-1	S-1 (0-1.0')	88	105
880-36054-2	S-1 (1.5')	97	109
880-36054-3	S-1 (2.0')	93	107
880-36054-4	S-1 (3.0')	92	115
880-36054-5	S-1 (4.0')	94	109
LCS 880-67580/1-A	Lab Control Sample	89	100
LCSD 880-67580/2-A	Lab Control Sample Dup	92	108
MB 880-67438/5-A	Method Blank	117	149 S1+
MB 880-67580/5-A	Method Blank	107	141 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**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
820-10978-A-16-E MS	Matrix Spike	146 S1+	113
820-10978-A-16-F MSD	Matrix Spike Duplicate	133 S1+	102
880-36054-1	S-1 (0-1.0')	146 S1+	123
880-36054-2	S-1 (1.5')	161 S1+	138 S1+
880-36054-3	S-1 (2.0')	152 S1+	131 S1+
880-36054-4	S-1 (3.0')	139 S1+	121
880-36054-5	S-1 (4.0')	139 S1+	121
LCS 880-67569/2-A	Lab Control Sample	88	94
LCSD 880-67569/3-A	Lab Control Sample Dup	104	108
MB 880-67569/1-A	Method Blank	154 S1+	141 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-67438/5-A
Matrix: Solid
Analysis Batch: 67556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/20/23 14:09	11/21/23 16:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/20/23 14:09	11/21/23 16:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/20/23 14:09	11/21/23 16:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/20/23 14:09	11/21/23 16:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/20/23 14:09	11/21/23 16:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/20/23 14:09	11/21/23 16:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*11/20/23 14:09*	*11/21/23 16:10*	*1*
1,4-Difluorobenzene (Surr)	*149*	*S1+*	*70 - 130*	*11/20/23 14:09*	*11/21/23 16:10*	*1*

Lab Sample ID: MB 880-67580/5-A
Matrix: Solid
Analysis Batch: 67556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67580

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/22/23 03:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/22/23 03:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/22/23 03:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/21/23 14:52	11/22/23 03:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/22/23 03:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/21/23 14:52	11/22/23 03:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*11/21/23 14:52*	*11/22/23 03:49*	*1*
1,4-Difluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*11/21/23 14:52*	*11/22/23 03:49*	*1*

Lab Sample ID: LCS 880-67580/1-A
Matrix: Solid
Analysis Batch: 67556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67580

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1041		mg/Kg		104	70 - 130
Toluene	0.100	0.09065		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.08656		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1921		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09395		mg/Kg		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-67580/2-A
Matrix: Solid
Analysis Batch: 67556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67580

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1186		mg/Kg		119	70 - 130	13	35

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-67580/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 67556 — **Prep Batch: 67580**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09170		mg/Kg		92	70 - 130	1	35
Ethylbenzene			0.100	0.08494		mg/Kg		85	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1824		mg/Kg		91	70 - 130	5	35
o-Xylene			0.100	0.08874		mg/Kg		89	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 880-35979-A-31-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 67556 — **Prep Batch: 67580**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0990	0.1069		mg/Kg		108	70 - 130
Toluene	<0.00198	U	0.0990	0.08980		mg/Kg		91	70 - 130
Ethylbenzene	<0.00198	U	0.0990	0.09199		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.198	0.2092		mg/Kg		106	70 - 130
o-Xylene	<0.00198	U	0.0990	0.09337		mg/Kg		94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-35979-A-31-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 67556 — **Prep Batch: 67580**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.101	0.1174		mg/Kg		116	70 - 130	9	35
Toluene	<0.00198	U	0.101	0.09287		mg/Kg		92	70 - 130	3	35
Ethylbenzene	<0.00198	U	0.101	0.09302		mg/Kg		92	70 - 130	1	35
m-Xylene & p-Xylene	<0.00396	U	0.202	0.1981		mg/Kg		98	70 - 130	5	35
o-Xylene	<0.00198	U	0.101	0.09592		mg/Kg		95	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

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

Lab Sample ID: MB 880-67569/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 67601 — **Prep Batch: 67569**

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		11/21/23 14:44	11/22/23 08:19	1

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-67569/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 67601 — **Prep Batch: 67569**

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		11/21/23 14:44	11/22/23 08:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/21/23 14:44	11/22/23 08:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*154*	*S1+*	*70 - 130*	*11/21/23 14:44*	*11/22/23 08:19*	*1*
o-Terphenyl	*141*	*S1+*	*70 - 130*	*11/21/23 14:44*	*11/22/23 08:19*	*1*

Lab Sample ID: LCS 880-67569/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 67601 — **Prep Batch: 67569**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1035		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	995.3		mg/Kg		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: LCSD 880-67569/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 67601 — **Prep Batch: 67569**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1049		mg/Kg		105	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1074		mg/Kg		107	70 - 130	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: 820-10978-A-16-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 67601 — **Prep Batch: 67569**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F2	993	1110		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U F1	993	1339	F1	mg/Kg		132	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*146*	*S1+*	*70 - 130*
o-Terphenyl	*113*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 820-10978-A-16-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 67601 — **Prep Batch: 67569**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F2	993	864.6	F2	mg/Kg		83	70 - 130	25	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	993	1200		mg/Kg		118	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*133*	*S1+*	*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-67648/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 67733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/27/23 13:22	1

Lab Sample ID: LCS 880-67648/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 67733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	234.4		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-67648/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 67733

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.6		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 880-36054-5 MS — **Client Sample ID: S-1 (4.0')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 67733

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10100		4950	14660		mg/Kg		92	90 - 110

Lab Sample ID: 880-36054-5 MSD — **Client Sample ID: S-1 (4.0')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 67733

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10100		4950	14780		mg/Kg		94	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 67438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-67438/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 67556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36054-1	S-1 (0-1.0')	Total/NA	Solid	8021B	67580
880-36054-2	S-1 (1.5')	Total/NA	Solid	8021B	67580
880-36054-3	S-1 (2.0')	Total/NA	Solid	8021B	67580
880-36054-4	S-1 (3.0')	Total/NA	Solid	8021B	67580
880-36054-5	S-1 (4.0')	Total/NA	Solid	8021B	67580
MB 880-67438/5-A	Method Blank	Total/NA	Solid	8021B	67438
MB 880-67580/5-A	Method Blank	Total/NA	Solid	8021B	67580
LCS 880-67580/1-A	Lab Control Sample	Total/NA	Solid	8021B	67580
LCSD 880-67580/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	67580
880-35979-A-31-F MS	Matrix Spike	Total/NA	Solid	8021B	67580
880-35979-A-31-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	67580

Prep Batch: 67580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36054-1	S-1 (0-1.0')	Total/NA	Solid	5035	
880-36054-2	S-1 (1.5')	Total/NA	Solid	5035	
880-36054-3	S-1 (2.0')	Total/NA	Solid	5035	
880-36054-4	S-1 (3.0')	Total/NA	Solid	5035	
880-36054-5	S-1 (4.0')	Total/NA	Solid	5035	
MB 880-67580/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-67580/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-67580/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-35979-A-31-F MS	Matrix Spike	Total/NA	Solid	5035	
880-35979-A-31-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 67619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36054-1	S-1 (0-1.0')	Total/NA	Solid	Total BTEX	
880-36054-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-36054-3	S-1 (2.0')	Total/NA	Solid	Total BTEX	
880-36054-4	S-1 (3.0')	Total/NA	Solid	Total BTEX	
880-36054-5	S-1 (4.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 67569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36054-1	S-1 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-36054-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-36054-3	S-1 (2.0')	Total/NA	Solid	8015NM Prep	
880-36054-4	S-1 (3.0')	Total/NA	Solid	8015NM Prep	
880-36054-5	S-1 (4.0')	Total/NA	Solid	8015NM Prep	
MB 880-67569/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-67569/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-67569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-10978-A-16-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
820-10978-A-16-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1
SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 67601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36054-1	S-1 (0-1.0')	Total/NA	Solid	8015B NM	67569
880-36054-2	S-1 (1.5')	Total/NA	Solid	8015B NM	67569
880-36054-3	S-1 (2.0')	Total/NA	Solid	8015B NM	67569
880-36054-4	S-1 (3.0')	Total/NA	Solid	8015B NM	67569
880-36054-5	S-1 (4.0')	Total/NA	Solid	8015B NM	67569
MB 880-67569/1-A	Method Blank	Total/NA	Solid	8015B NM	67569
LCS 880-67569/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	67569
LCSD 880-67569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	67569
820-10978-A-16-E MS	Matrix Spike	Total/NA	Solid	8015B NM	67569
820-10978-A-16-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	67569

Analysis Batch: 67750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36054-1	S-1 (0-1.0')	Total/NA	Solid	8015 NM	
880-36054-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-36054-3	S-1 (2.0')	Total/NA	Solid	8015 NM	
880-36054-4	S-1 (3.0')	Total/NA	Solid	8015 NM	
880-36054-5	S-1 (4.0')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 67648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36054-1	S-1 (0-1.0')	Soluble	Solid	DI Leach	
880-36054-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-36054-3	S-1 (2.0')	Soluble	Solid	DI Leach	
880-36054-4	S-1 (3.0')	Soluble	Solid	DI Leach	
880-36054-5	S-1 (4.0')	Soluble	Solid	DI Leach	
MB 880-67648/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-67648/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-67648/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-36054-5 MS	S-1 (4.0')	Soluble	Solid	DI Leach	
880-36054-5 MSD	S-1 (4.0')	Soluble	Solid	DI Leach	

Analysis Batch: 67733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36054-1	S-1 (0-1.0')	Soluble	Solid	300.0	67648
880-36054-2	S-1 (1.5')	Soluble	Solid	300.0	67648
880-36054-3	S-1 (2.0')	Soluble	Solid	300.0	67648
880-36054-4	S-1 (3.0')	Soluble	Solid	300.0	67648
880-36054-5	S-1 (4.0')	Soluble	Solid	300.0	67648
MB 880-67648/1-A	Method Blank	Soluble	Solid	300.0	67648
LCS 880-67648/2-A	Lab Control Sample	Soluble	Solid	300.0	67648
LCSD 880-67648/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	67648
880-36054-5 MS	S-1 (4.0')	Soluble	Solid	300.0	67648
880-36054-5 MSD	S-1 (4.0')	Soluble	Solid	300.0	67648

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (0-1.0')

Lab Sample ID: 880-36054-1
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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	67580	11/21/23 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67556	11/22/23 09:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67619	11/22/23 09:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			67750	11/22/23 16:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	67569	11/21/23 14:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67601	11/22/23 16:30	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	67648	11/22/23 14:03	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	67733	11/27/23 14:35	CH	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-36054-2
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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	67580	11/21/23 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67556	11/22/23 09:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67619	11/22/23 09:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			67750	11/22/23 16:52	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	67569	11/21/23 14:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67601	11/22/23 16:52	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	67648	11/22/23 14:03	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	67733	11/27/23 14:41	CH	EET MID

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-36054-3
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	67580	11/21/23 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67556	11/22/23 09:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67619	11/22/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			67750	11/22/23 17:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	67569	11/21/23 14:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67601	11/22/23 17:15	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	67648	11/22/23 14:03	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	67733	11/27/23 14:46	CH	EET MID

Client Sample ID: S-1 (3.0')

Lab Sample ID: 880-36054-4
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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	67580	11/21/23 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67556	11/22/23 10:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67619	11/22/23 10:13	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (3.0')

Lab Sample ID: 880-36054-4
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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			67750	11/22/23 17:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	67569	11/21/23 14:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67601	11/22/23 17:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	67648	11/22/23 14:03	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	67733	11/27/23 14:52	CH	EET MID

Client Sample ID: S-1 (4.0')

Lab Sample ID: 880-36054-5
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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	67580	11/21/23 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67556	11/22/23 10:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67619	11/22/23 10:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			67750	11/22/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	67569	11/21/23 14:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67601	11/22/23 17:58	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	67648	11/22/23 14:03	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	67733	11/27/23 14:58	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Job ID: 880-36054-1
Project/Site: Lusk Deep Unit 028H (10.24.23)
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1
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: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36054-1	S-1 (0-1.0')	Solid	11/20/23 00:00	11/21/23 10:01
880-36054-2	S-1 (1.5')	Solid	11/20/23 00:00	11/21/23 10:01
880-36054-3	S-1 (2.0')	Solid	11/20/23 00:00	11/21/23 10:01
880-36054-4	S-1 (3.0')	Solid	11/20/23 00:00	11/21/23 10:01
880-36054-5	S-1 (4.0')	Solid	11/20/23 00:00	11/21/23 10:01

Page 56 of 133

Wo

880-36054 Chain of Custody

11/28/2023

Page 1 of 1

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

Work Order Comments

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

State of Project:

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

Deliverables. EDD ☐ ADaPT ☐ Other

Project Name:	Lusk Deep Unit 028H (10.24.23)	Turn Around	
Project Number	2195	☐ Routine ☑ Rush	
Project Location	Lea County, New Mexico	Due Date	72 HR
Sampler's Name.	GPJ		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID	IR8
Cooler Custody Seals	Yes No N/A	Correction Factor	+.2
Sample Custody Seals.	Yes No N/A	Temperature Reading	-6.3
Total Containers.		Corrected Temperature.	-6.1

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0
S-1 (0-1.0')	11/20/2023		X		G	1	X	X	X
S-1 (1.5')	11/20/2023		X		G	1	X	X	X
S-1 (2.0')	11/20/2023		X		G	1	X	X	X
S-1 (3.0')	11/20/2023		X		G	1	X	X	X
S-1 (4.0')	11/20/2023		X		G	1	X	X	X

ANALYSIS REQUEST — Pres. Code — Parameters

Preservative Codes

None. NO — DI Water H_2O

Cool Cool — MeOH Me

HCL HC — HNO_3. HN

H_2SO_4. H_2 — NaOH Na

H_3PO_4 HP

$NaHSO_4$. NABIS

$Na_2S_2O_3$. $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid. SAPC

Sample Comments

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	11-21-23		
	1001		

Page 22 of 23

Received by OCD: 1/25/2024 9:54:33 AM

Released to Imaging: 4/1/2024 7:45:25 AM

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-36054-1
SDG Number: Lea County, New Mexico

Login Number: 36054
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/28/2023 9:05:53 AM

JOB DESCRIPTION

Lusk Deep Unit 028H (10.24.23)
Lea County, New Mexico

JOB NUMBER

880-36053-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 4/1/2024 7:45:25 AM

my EOL

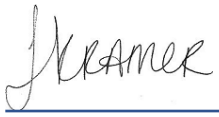
Eurofins Midland

Job Notes

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

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

Authorization



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11/28/2023 9:05:53 AM

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

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1
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
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1
SDG: Lea County, New Mexico

Job ID: 880-36053-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-36053-1

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 11/21/2023 10:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -6.1°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-36053-1), H-2 (0-0.5') (880-36053-2), H-3 (0-0.5') (880-36053-3) and H-4 (0-0.5') (880-36053-4).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-67438 and 880-67580 and analytical batch 880-67556 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 880-67569 and analytical batch 880-67601 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-1 (0-0.5') (880-36053-1), H-2 (0-0.5') (880-36053-2), H-3 (0-0.5') (880-36053-3), H-4 (0-0.5') (880-36053-4), (820-10978-A-16-D), (820-10978-A-16-E MS) and (820-10978-A-16-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-67569 and analytical batch 880-67601 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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Released to Imaging: 4/1/2024 7:45:25 AM

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-36053-1
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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		11/21/23 14:52	11/22/23 10:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/21/23 14:52	11/22/23 10:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/21/23 14:52	11/22/23 10:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/21/23 14:52	11/22/23 10:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/21/23 14:52	11/22/23 10:54	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/21/23 14:52	11/22/23 10:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*11/21/23 14:52*	*11/22/23 10:54*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*11/21/23 14:52*	*11/22/23 10:54*	*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			11/22/23 10:54	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			11/22/23 14:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/21/23 14:44	11/22/23 14:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/21/23 14:44	11/22/23 14:38	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/21/23 14:44	11/22/23 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*11/21/23 14:44*	*11/22/23 14:38*	*1*
o-Terphenyl	*111*		*70 - 130*	*11/21/23 14:44*	*11/22/23 14:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**374**		4.96		mg/Kg			11/27/23 14:01	1

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

Lab Sample ID: 880-36053-2
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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		11/21/23 14:52	11/22/23 11:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/21/23 14:52	11/22/23 11:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/21/23 14:52	11/22/23 11:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/21/23 14:52	11/22/23 11:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/21/23 14:52	11/22/23 11:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/21/23 14:52	11/22/23 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*11/21/23 14:52*	*11/22/23 11:15*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*11/21/23 14:52*	*11/22/23 11:15*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-36053-2
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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			11/22/23 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			11/22/23 15:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		11/21/23 14:44	11/22/23 15:01	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		11/21/23 14:44	11/22/23 15:01	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/21/23 14:44	11/22/23 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*152*	*S1+*	*70 - 130*	*11/21/23 14:44*	*11/22/23 15:01*	*1*
o-Terphenyl	*129*		*70 - 130*	*11/21/23 14:44*	*11/22/23 15:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**134**		5.00		mg/Kg			11/27/23 14:07	1

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

Lab Sample ID: 880-36053-3
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/21/23 14:52	11/22/23 11:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/21/23 14:52	11/22/23 11:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/21/23 14:52	11/22/23 11:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/21/23 14:52	11/22/23 11:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/21/23 14:52	11/22/23 11:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/21/23 14:52	11/22/23 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/21/23 14:52*	*11/22/23 11:35*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/21/23 14:52*	*11/22/23 11:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/22/23 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			11/22/23 15:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		11/21/23 14:44	11/22/23 15:45	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/21/23 14:44	11/22/23 15:45	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-36053-3
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/21/23 14:44	11/22/23 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*151*	*S1+*	*70 - 130*	*11/21/23 14:44*	*11/22/23 15:45*	*1*
o-Terphenyl	*126*		*70 - 130*	*11/21/23 14:44*	*11/22/23 15:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**204**		5.03		mg/Kg			11/27/23 14:12	1

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

Lab Sample ID: 880-36053-4
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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		11/21/23 14:52	11/22/23 11:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/22/23 11:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/22/23 11:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/21/23 14:52	11/22/23 11:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/22/23 11:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/21/23 14:52	11/22/23 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*11/21/23 14:52*	*11/22/23 11:55*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*11/21/23 14:52*	*11/22/23 11:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/22/23 11:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/22/23 16:07	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		11/21/23 14:44	11/22/23 16:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/21/23 14:44	11/22/23 16:07	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/21/23 14:44	11/22/23 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*148*	*S1+*	*70 - 130*	*11/21/23 14:44*	*11/22/23 16:07*	*1*
o-Terphenyl	*128*		*70 - 130*	*11/21/23 14:44*	*11/22/23 16:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.4**		5.04		mg/Kg			11/27/23 14:30	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-35979-A-31-F MS	Matrix Spike	104	101
880-35979-A-31-G MSD	Matrix Spike Duplicate	99	107
880-36053-1	H-1 (0-0.5')	108	116
880-36053-2	H-2 (0-0.5')	105	114
880-36053-3	H-3 (0-0.5')	101	106
880-36053-4	H-4 (0-0.5')	105	113
LCS 880-67580/1-A	Lab Control Sample	89	100
LCSD 880-67580/2-A	Lab Control Sample Dup	92	108
MB 880-67438/5-A	Method Blank	117	149 S1+
MB 880-67580/5-A	Method Blank	107	141 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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
820-10978-A-16-E MS	Matrix Spike	146 S1+	113
820-10978-A-16-F MSD	Matrix Spike Duplicate	133 S1+	102
880-36053-1	H-1 (0-0.5')	133 S1+	111
880-36053-2	H-2 (0-0.5')	152 S1+	129
880-36053-3	H-3 (0-0.5')	151 S1+	126
880-36053-4	H-4 (0-0.5')	148 S1+	128
LCS 880-67569/2-A	Lab Control Sample	88	94
LCSD 880-67569/3-A	Lab Control Sample Dup	104	108
MB 880-67569/1-A	Method Blank	154 S1+	141 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-67438/5-A
Matrix: Solid
Analysis Batch: 67556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/20/23 14:09	11/21/23 16:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/20/23 14:09	11/21/23 16:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/20/23 14:09	11/21/23 16:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/20/23 14:09	11/21/23 16:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/20/23 14:09	11/21/23 16:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/20/23 14:09	11/21/23 16:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*11/20/23 14:09*	*11/21/23 16:10*	*1*
1,4-Difluorobenzene (Surr)	*149*	*S1+*	*70 - 130*	*11/20/23 14:09*	*11/21/23 16:10*	*1*

Lab Sample ID: MB 880-67580/5-A
Matrix: Solid
Analysis Batch: 67556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67580

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/22/23 03:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/22/23 03:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/22/23 03:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/21/23 14:52	11/22/23 03:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/22/23 03:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/21/23 14:52	11/22/23 03:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*11/21/23 14:52*	*11/22/23 03:49*	*1*
1,4-Difluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*11/21/23 14:52*	*11/22/23 03:49*	*1*

Lab Sample ID: LCS 880-67580/1-A
Matrix: Solid
Analysis Batch: 67556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67580

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1041		mg/Kg		104	70 - 130
Toluene	0.100	0.09065		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.08656		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1921		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09395		mg/Kg		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-67580/2-A
Matrix: Solid
Analysis Batch: 67556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67580

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1186		mg/Kg		119	70 - 130	13	35

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-67580/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 67556 — **Prep Batch: 67580**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09170		mg/Kg		92	70 - 130	1	35
Ethylbenzene			0.100	0.08494		mg/Kg		85	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1824		mg/Kg		91	70 - 130	5	35
o-Xylene			0.100	0.08874		mg/Kg		89	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 880-35979-A-31-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 67556 — **Prep Batch: 67580**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0990	0.1069		mg/Kg		108	70 - 130
Toluene	<0.00198	U	0.0990	0.08980		mg/Kg		91	70 - 130
Ethylbenzene	<0.00198	U	0.0990	0.09199		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.198	0.2092		mg/Kg		106	70 - 130
o-Xylene	<0.00198	U	0.0990	0.09337		mg/Kg		94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-35979-A-31-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 67556 — **Prep Batch: 67580**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.101	0.1174		mg/Kg		116	70 - 130	9	35
Toluene	<0.00198	U	0.101	0.09287		mg/Kg		92	70 - 130	3	35
Ethylbenzene	<0.00198	U	0.101	0.09302		mg/Kg		92	70 - 130	1	35
m-Xylene & p-Xylene	<0.00396	U	0.202	0.1981		mg/Kg		98	70 - 130	5	35
o-Xylene	<0.00198	U	0.101	0.09592		mg/Kg		95	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

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

Lab Sample ID: MB 880-67569/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 67601 — **Prep Batch: 67569**

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		11/21/23 14:44	11/22/23 08:19	1

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-67569/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 67601 — **Prep Batch: 67569**

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		11/21/23 14:44	11/22/23 08:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/21/23 14:44	11/22/23 08:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*154*	*S1+*	*70 - 130*	*11/21/23 14:44*	*11/22/23 08:19*	*1*
o-Terphenyl	*141*	*S1+*	*70 - 130*	*11/21/23 14:44*	*11/22/23 08:19*	*1*

Lab Sample ID: LCS 880-67569/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 67601 — **Prep Batch: 67569**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1035		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	995.3		mg/Kg		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: LCSD 880-67569/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 67601 — **Prep Batch: 67569**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1049		mg/Kg		105	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1074		mg/Kg		107	70 - 130	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: 820-10978-A-16-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 67601 — **Prep Batch: 67569**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F2	993	1110		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U F1	993	1339	F1	mg/Kg		132	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*146*	*S1+*	*70 - 130*
o-Terphenyl	*113*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 820-10978-A-16-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 67601 — **Prep Batch: 67569**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F2	993	864.6	F2	mg/Kg		83	70 - 130	25	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	993	1200		mg/Kg		118	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*133*	*S1+*	*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-67648/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 67733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/27/23 13:22	1

Lab Sample ID: LCS 880-67648/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 67733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	234.4		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-67648/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 67733

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.6		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 880-36047-A-4-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 67733

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	12100		5020	16650		mg/Kg		91	90 - 110

Lab Sample ID: 880-36047-A-4-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 67733

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12100		5020	16740		mg/Kg		93	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 67438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-67438/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 67556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36053-1	H-1 (0-0.5')	Total/NA	Solid	8021B	67580
880-36053-2	H-2 (0-0.5')	Total/NA	Solid	8021B	67580
880-36053-3	H-3 (0-0.5')	Total/NA	Solid	8021B	67580
880-36053-4	H-4 (0-0.5')	Total/NA	Solid	8021B	67580
MB 880-67438/5-A	Method Blank	Total/NA	Solid	8021B	67438
MB 880-67580/5-A	Method Blank	Total/NA	Solid	8021B	67580
LCS 880-67580/1-A	Lab Control Sample	Total/NA	Solid	8021B	67580
LCSD 880-67580/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	67580
880-35979-A-31-F MS	Matrix Spike	Total/NA	Solid	8021B	67580
880-35979-A-31-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	67580

Prep Batch: 67580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36053-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-36053-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-36053-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-36053-4	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-67580/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-67580/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-67580/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-35979-A-31-F MS	Matrix Spike	Total/NA	Solid	5035	
880-35979-A-31-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 67620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36053-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-36053-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-36053-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-36053-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 67569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36053-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-36053-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-36053-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-36053-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-67569/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-67569/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-67569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-10978-A-16-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
820-10978-A-16-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 67601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36053-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	67569

QC Association Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 67601 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36053-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	67569
880-36053-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	67569
880-36053-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	67569
MB 880-67569/1-A	Method Blank	Total/NA	Solid	8015B NM	67569
LCS 880-67569/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	67569
LCSD 880-67569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	67569
820-10978-A-16-E MS	Matrix Spike	Total/NA	Solid	8015B NM	67569
820-10978-A-16-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	67569

Analysis Batch: 67749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36053-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-36053-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-36053-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-36053-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 67648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36053-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-36053-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-36053-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-36053-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-67648/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-67648/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-67648/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-36047-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-36047-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 67733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36053-1	H-1 (0-0.5')	Soluble	Solid	300.0	67648
880-36053-2	H-2 (0-0.5')	Soluble	Solid	300.0	67648
880-36053-3	H-3 (0-0.5')	Soluble	Solid	300.0	67648
880-36053-4	H-4 (0-0.5')	Soluble	Solid	300.0	67648
MB 880-67648/1-A	Method Blank	Soluble	Solid	300.0	67648
LCS 880-67648/2-A	Lab Control Sample	Soluble	Solid	300.0	67648
LCSD 880-67648/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	67648
880-36047-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	67648
880-36047-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	67648

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-36053-1
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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	67580	11/21/23 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67556	11/22/23 10:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67620	11/22/23 10:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			67749	11/22/23 14:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	67569	11/21/23 14:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67601	11/22/23 14:38	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	67648	11/22/23 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67733	11/27/23 14:01	CH	EET MID

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

Lab Sample ID: 880-36053-2
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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	67580	11/21/23 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67556	11/22/23 11:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67620	11/22/23 11:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			67749	11/22/23 15:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	67569	11/21/23 14:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67601	11/22/23 15:01	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	67648	11/22/23 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67733	11/27/23 14:07	CH	EET MID

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

Lab Sample ID: 880-36053-3
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	67580	11/21/23 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67556	11/22/23 11:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67620	11/22/23 11:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			67749	11/22/23 15:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	67569	11/21/23 14:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67601	11/22/23 15:45	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	67648	11/22/23 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67733	11/27/23 14:12	CH	EET MID

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

Lab Sample ID: 880-36053-4
Matrix: Solid
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

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	67580	11/21/23 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67556	11/22/23 11:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67620	11/22/23 11:55	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1
SDG: Lea County, New Mexico

Client Sample ID: H-4 (0-0.5')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36053-4
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			67749	11/22/23 16:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	67569	11/21/23 14:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67601	11/22/23 16:07	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	67648	11/22/23 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67733	11/27/23 14:30	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Job ID: 880-36053-1
Project/Site: Lusk Deep Unit 028H (10.24.23)
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1
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: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36053-1	H-1 (0-0.5')	Solid	11/20/23 00:00	11/21/23 10:01
880-36053-2	H-2 (0-0.5')	Solid	11/20/23 00:00	11/21/23 10:01
880-36053-3	H-3 (0-0.5')	Solid	11/20/23 00:00	11/21/23 10:01
880-36053-4	H-4 (0-0.5')	Solid	11/20/23 00:00	11/21/23 10:01

Page 78 of 133

880-36053 Chain of Custody

11/28/2023

Page 1 of 1

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

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name.	Lusk Deep Unit 028H (10.24.23)	Turn Around	
Project Number	2195	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date	72 HR
Sampler's Name.	GPJ		
PO #			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID	IR8
Cooler Custody Seals	Yes No N/A	Correction Factor	+.20
Sample Custody Seals.	Yes No N/A	Temperature Reading	-0.3
Total Containers		Corrected Temperature.	-0.1

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0
H-1 (0-0.5')	11/20/2023		X		G	1		X	X	X
H-2 (0-0.5')	11/20/2023		X		G	1		X	X	X
H-3 (0-0.5')	11/20/2023		X		G	1		X	X	X
H-4 (0-0.5')	11/20/2023		X		G	1		X	X	X

Preservative Codes

None: NO DI Water H_2O

Cool Cool MeOH Me

HCL HC HNO_3. HN

H_2S0_4 H_2 NaOH Na

H_3PO_4 HP

$NaHSO_4$. NABIS

$Na_2S_2O_3$. $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Comments

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	11-21-23 1601		

Page 21 of 22

Received by OCD: 1/25/2024 9:54:33 AM

Released to Imaging: 4/1/2024 7:45:25 AM

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-36053-1
SDG Number: Lea County, New Mexico

Login Number: 36053
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/6/2023 1:18:16 PM

JOB DESCRIPTION

Lusk Deep Unit 025H (10.24.23)

JOB NUMBER

880-36411-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 4/1/2024 7:45:25 AM

my EOL

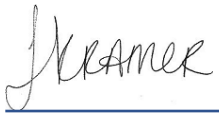
Eurofins Midland

Job Notes

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

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

Authorization



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12/6/2023 1:18:16 PM

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

Client: Carmona Resources
Project/Site: Lusk Deep Unit 025H (10.24.23)

Laboratory Job ID: 880-36411-1

Table of Contents

Definitions/Glossary

Client: Carmona Resources Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Lusk Deep Unit 025H (10.24.23)

Job ID: 880-36411-1

Job ID: 880-36411-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-36411-1

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 12/4/2023 1:52 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 -8.6°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-36273-A-41-B MS) and (880-36273-A-41-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-68224 and analytical batch 880-68206 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-68224/1-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-68308/1-A), (MB 880-68223/5-A) and (MB 880-68308/5-A). Evidence of matrix interferences is not obvious.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-68386 and analytical batch 880-68368 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-1 (5') (880-36411-1), CS-2 (5') (880-36411-2), SW-1 (5') (880-36411-6), SW-2 (5') (880-36411-7), SW-4 (5') (880-36411-9), (880-36387-A-4-F MS) and (880-36387-A-4-G MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-5 (5') (880-36411-10) and SW-6 (5') (880-36411-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-68368/20). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-68386 and analytical batch 880-68368 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-68368 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been

Case Narrative

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

Job ID: 880-36411-1 (Continued)

Laboratory: Eurofins Midland (Continued)

qualified and reported. The associated sample is impacted: (CCV 880-68368/20).

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

Client Sample ID: CS-1 (5')
Lab Sample ID: 880-36411-1
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/04/23 14:30	12/04/23 18:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/04/23 14:30	12/04/23 18:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/04/23 14:30	12/04/23 18:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/04/23 14:30	12/04/23 18:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/04/23 14:30	12/04/23 18:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/04/23 14:30	12/04/23 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*12/04/23 14:30*	*12/04/23 18:14*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/04/23 14:30*	*12/04/23 18:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/04/23 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			12/05/23 11:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		12/05/23 09:30	12/05/23 11:36	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		12/05/23 09:30	12/05/23 11:36	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		12/05/23 09:30	12/05/23 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*12/05/23 09:30*	*12/05/23 11:36*	*1*
o-Terphenyl	*119*		*70 - 130*	*12/05/23 09:30*	*12/05/23 11:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.4**		5.01		mg/Kg			12/04/23 22:37	1

Client Sample ID: CS-2 (5')
Lab Sample ID: 880-36411-2
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/04/23 14:30	12/04/23 18:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/04/23 14:30	12/04/23 18:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/04/23 14:30	12/04/23 18:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/04/23 14:30	12/04/23 18:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/04/23 14:30	12/04/23 18:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/04/23 14:30	12/04/23 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*12/04/23 14:30*	*12/04/23 18:34*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*12/04/23 14:30*	*12/04/23 18:34*	*1*

Client Sample Results

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

Client Sample ID: CS-2 (5')
Lab Sample ID: 880-36411-2
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/04/23 18:34	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			12/05/23 11:58	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		12/05/23 09:30	12/05/23 11:58	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/05/23 09:30	12/05/23 11:58	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/05/23 09:30	12/05/23 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*146*	*S1+*	*70 - 130*	*12/05/23 09:30*	*12/05/23 11:58*	*1*
o-Terphenyl	*127*		*70 - 130*	*12/05/23 09:30*	*12/05/23 11:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**219**		4.99		mg/Kg			12/04/23 22:54	1

Client Sample ID: CS-3 (5')
Lab Sample ID: 880-36411-3
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/04/23 14:30	12/04/23 18:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/04/23 14:30	12/04/23 18:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/04/23 14:30	12/04/23 18:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/04/23 14:30	12/04/23 18:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/04/23 14:30	12/04/23 18:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/04/23 14:30	12/04/23 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*12/04/23 14:30*	*12/04/23 18:55*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*12/04/23 14:30*	*12/04/23 18:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/04/23 18:55	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			12/05/23 12:20	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	<49.7	U	49.7		mg/Kg		12/05/23 09:30	12/05/23 12:20	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/05/23 09:30	12/05/23 12:20	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

Client Sample ID: CS-3 (5')
Lab Sample ID: 880-36411-3
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/05/23 09:30	12/05/23 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*12/05/23 09:30*	*12/05/23 12:20*	*1*
o-Terphenyl	*112*		*70 - 130*	*12/05/23 09:30*	*12/05/23 12:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.5**		5.02		mg/Kg			12/04/23 22:59	1

Client Sample ID: CS-4 (5')
Lab Sample ID: 880-36411-4
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/04/23 14:30	12/04/23 19:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/04/23 14:30	12/04/23 19:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/04/23 14:30	12/04/23 19:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/04/23 14:30	12/04/23 19:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/04/23 14:30	12/04/23 19:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/04/23 14:30	12/04/23 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*12/04/23 14:30*	*12/04/23 19:15*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*12/04/23 14:30*	*12/04/23 19:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/04/23 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/05/23 12:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/05/23 09:30	12/05/23 12:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/05/23 09:30	12/05/23 12:42	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/23 09:30	12/05/23 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*12/05/23 09:30*	*12/05/23 12:42*	*1*
o-Terphenyl	*112*		*70 - 130*	*12/05/23 09:30*	*12/05/23 12:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**89.8**		5.02		mg/Kg			12/04/23 23:16	1

Client Sample Results

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

Client Sample ID: CS-5 (5')
Lab Sample ID: 880-36411-5
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/04/23 14:30	12/04/23 19:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/04/23 14:30	12/04/23 19:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/04/23 14:30	12/04/23 19:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/04/23 14:30	12/04/23 19:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/04/23 14:30	12/04/23 19:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/04/23 14:30	12/04/23 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/04/23 14:30*	*12/04/23 19:36*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/04/23 14:30*	*12/04/23 19:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/04/23 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/05/23 13:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/23 09:30	12/05/23 13:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/23 09:30	12/05/23 13:04	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/23 09:30	12/05/23 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*12/05/23 09:30*	*12/05/23 13:04*	*1*
o-Terphenyl	*112*		*70 - 130*	*12/05/23 09:30*	*12/05/23 13:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**147**		5.04		mg/Kg			12/04/23 23:22	1

Client Sample ID: SW-1 (5')
Lab Sample ID: 880-36411-6
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/04/23 14:30	12/04/23 19:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/04/23 14:30	12/04/23 19:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/04/23 14:30	12/04/23 19:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/04/23 14:30	12/04/23 19:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/04/23 14:30	12/04/23 19:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/04/23 14:30	12/04/23 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/04/23 14:30*	*12/04/23 19:56*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*12/04/23 14:30*	*12/04/23 19:56*	*1*

Client Sample Results

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

Client Sample ID: SW-1 (5')
Lab Sample ID: 880-36411-6
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/04/23 19:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			12/05/23 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		12/05/23 09:30	12/05/23 13:25	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		12/05/23 09:30	12/05/23 13:25	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		12/05/23 09:30	12/05/23 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*158*	*S1+*	*70 - 130*	*12/05/23 09:30*	*12/05/23 13:25*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*12/05/23 09:30*	*12/05/23 13:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.2**		5.00		mg/Kg			12/04/23 23:28	1

Client Sample ID: SW-2 (5')
Lab Sample ID: 880-36411-7
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/04/23 14:30	12/04/23 20:16	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/04/23 14:30	12/04/23 20:16	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/04/23 14:30	12/04/23 20:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/04/23 14:30	12/04/23 20:16	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/04/23 14:30	12/04/23 20:16	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/04/23 14:30	12/04/23 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/04/23 14:30*	*12/04/23 20:16*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*12/04/23 14:30*	*12/04/23 20:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			12/04/23 20:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			12/05/23 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	<50.1	U	50.1		mg/Kg		12/05/23 09:30	12/05/23 13:47	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		12/05/23 09:30	12/05/23 13:47	1

Client Sample Results

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

Client Sample ID: SW-2 (5')
Lab Sample ID: 880-36411-7
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		12/05/23 09:30	12/05/23 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*151*	*S1+*	*70 - 130*	*12/05/23 09:30*	*12/05/23 13:47*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*12/05/23 09:30*	*12/05/23 13:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			12/04/23 23:33	1

Client Sample ID: SW-3 (5')
Lab Sample ID: 880-36411-8
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/04/23 14:30	12/04/23 20:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/04/23 14:30	12/04/23 20:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/04/23 14:30	12/04/23 20:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/04/23 14:30	12/04/23 20:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/04/23 14:30	12/04/23 20:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/04/23 14:30	12/04/23 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/04/23 14:30*	*12/04/23 20:37*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*12/04/23 14:30*	*12/04/23 20:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/04/23 20:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			12/05/23 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	<50.4	U	50.4		mg/Kg		12/05/23 09:30	12/05/23 14:09	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		12/05/23 09:30	12/05/23 14:09	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		12/05/23 09:30	12/05/23 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*12/05/23 09:30*	*12/05/23 14:09*	*1*
o-Terphenyl	*102*		*70 - 130*	*12/05/23 09:30*	*12/05/23 14:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			12/04/23 23:39	1

Client Sample Results

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

Client Sample ID: SW-4 (5')
Lab Sample ID: 880-36411-9
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/04/23 14:30	12/04/23 20:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/04/23 14:30	12/04/23 20:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/04/23 14:30	12/04/23 20:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/04/23 14:30	12/04/23 20:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/04/23 14:30	12/04/23 20:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/04/23 14:30	12/04/23 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/04/23 14:30*	*12/04/23 20:57*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*12/04/23 14:30*	*12/04/23 20:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/04/23 20:57	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			12/05/23 14:31	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		12/05/23 09:30	12/05/23 14:31	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		12/05/23 09:30	12/05/23 14:31	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		12/05/23 09:30	12/05/23 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*137*	*S1+*	*70 - 130*	*12/05/23 09:30*	*12/05/23 14:31*	*1*
o-Terphenyl	*115*		*70 - 130*	*12/05/23 09:30*	*12/05/23 14:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.3**		5.05		mg/Kg			12/04/23 23:45	1

Client Sample ID: SW-5 (5')
Lab Sample ID: 880-36411-10
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/04/23 14:30	12/04/23 21:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/04/23 14:30	12/04/23 21:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/04/23 14:30	12/04/23 21:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/04/23 14:30	12/04/23 21:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/04/23 14:30	12/04/23 21:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/04/23 14:30	12/04/23 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/04/23 14:30*	*12/04/23 21:18*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*12/04/23 14:30*	*12/04/23 21:18*	*1*

Client Sample Results

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

Client Sample ID: SW-5 (5')
Lab Sample ID: 880-36411-10
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/04/23 21:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/05/23 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	<49.9	U	49.9		mg/Kg		12/05/23 09:30	12/05/23 15:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/05/23 09:30	12/05/23 15:15	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/23 09:30	12/05/23 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*211*	*S1+*	*70 - 130*	*12/05/23 09:30*	*12/05/23 15:15*	*1*
o-Terphenyl	*177*	*S1+*	*70 - 130*	*12/05/23 09:30*	*12/05/23 15:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.8**		5.02		mg/Kg			12/04/23 23:50	1

Client Sample ID: SW-6 (5')
Lab Sample ID: 880-36411-11
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/04/23 15:34	12/05/23 07:51	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/04/23 15:34	12/05/23 07:51	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/04/23 15:34	12/05/23 07:51	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/04/23 15:34	12/05/23 07:51	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/04/23 15:34	12/05/23 07:51	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/04/23 15:34	12/05/23 07:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*12/04/23 15:34*	*12/05/23 07:51*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*12/04/23 15:34*	*12/05/23 07:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			12/05/23 07:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/05/23 15:37	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	<49.7	U	49.7		mg/Kg		12/05/23 09:30	12/05/23 15:37	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/05/23 09:30	12/05/23 15:37	1

Client Sample Results

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

Client Sample ID: SW-6 (5') **Lab Sample ID: 880-36411-11**
Date Collected: 12/01/23 00:00 **Matrix: Solid**
Date Received: 12/04/23 13:52

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		12/05/23 09:30	12/05/23 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*12/05/23 09:30*	*12/05/23 15:37*	*1*
o-Terphenyl	*116*		*70 - 130*	*12/05/23 09:30*	*12/05/23 15:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.2**		5.00		mg/Kg			12/04/23 22:41	1

Surrogate Summary

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

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)
880-36273-A-41-B MS	Matrix Spike	163 S1+	112
880-36273-A-41-C MSD	Matrix Spike Duplicate	171 S1+	101
880-36380-A-4-C MS	Matrix Spike	99	97
880-36380-A-4-D MSD	Matrix Spike Duplicate	97	106
880-36411-1	CS-1 (5')	83	99
880-36411-2	CS-2 (5')	83	111
880-36411-3	CS-3 (5')	90	114
880-36411-4	CS-4 (5')	96	109
880-36411-5	CS-5 (5')	101	107
880-36411-6	SW-1 (5')	94	113
880-36411-7	SW-2 (5')	94	111
880-36411-8	SW-3 (5')	93	120
880-36411-9	SW-4 (5')	98	122
880-36411-10	SW-5 (5')	105	110
880-36411-11	SW-6 (5')	100	82
LCS 880-68224/1-A	Lab Control Sample	67 S1-	108
LCS 880-68308/1-A	Lab Control Sample	142 S1+	105
LCSD 880-68224/2-A	Lab Control Sample Dup	103	97
LCSD 880-68308/2-A	Lab Control Sample Dup	107	100
MB 880-68223/5-A	Method Blank	63 S1-	89
MB 880-68224/5-A	Method Blank	112	153 S1+
MB 880-68308/5-A	Method Blank	65 S1-	90

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)
880-36387-A-4-F MS	Matrix Spike	151 S1+	107
880-36387-A-4-G MSD	Matrix Spike Duplicate	149 S1+	106
880-36411-1	CS-1 (5')	135 S1+	119
880-36411-2	CS-2 (5')	146 S1+	127
880-36411-3	CS-3 (5')	126	112
880-36411-4	CS-4 (5')	129	112
880-36411-5	CS-5 (5')	126	112
880-36411-6	SW-1 (5')	158 S1+	136 S1+
880-36411-7	SW-2 (5')	151 S1+	133 S1+
880-36411-8	SW-3 (5')	122	102
880-36411-9	SW-4 (5')	137 S1+	115
880-36411-10	SW-5 (5')	211 S1+	177 S1+
880-36411-11	SW-6 (5')	135 S1+	116
LCS 880-68386/2-A	Lab Control Sample	114	115
LCSD 880-68386/3-A	Lab Control Sample Dup	112	102
MB 880-68386/1-A	Method Blank	192 S1+	183 S1+

Surrogate Legend

Surrogate Summary

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-68223/5-A
Matrix: Solid
Analysis Batch: 68204

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68223

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/04/23 10:00	12/04/23 12:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/04/23 10:00	12/04/23 12:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/04/23 10:00	12/04/23 12:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/04/23 10:00	12/04/23 12:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/04/23 10:00	12/04/23 12:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/04/23 10:00	12/04/23 12:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*12/04/23 10:00*	*12/04/23 12:27*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*12/04/23 10:00*	*12/04/23 12:27*	*1*

Lab Sample ID: MB 880-68224/5-A
Matrix: Solid
Analysis Batch: 68206

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68224

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/04/23 10:21	12/04/23 12:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/04/23 10:21	12/04/23 12:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/04/23 10:21	12/04/23 12:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/04/23 10:21	12/04/23 12:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/04/23 10:21	12/04/23 12:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/04/23 10:21	12/04/23 12:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/04/23 10:21*	*12/04/23 12:51*	*1*
1,4-Difluorobenzene (Surr)	*153*	*S1+*	*70 - 130*	*12/04/23 10:21*	*12/04/23 12:51*	*1*

Lab Sample ID: LCS 880-68224/1-A
Matrix: Solid
Analysis Batch: 68206

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68224

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08186		mg/Kg		82	70 - 130
Toluene	0.100	0.08792		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.07040		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	0.200	0.1509		mg/Kg		75	70 - 130
o-Xylene	0.100	0.07124		mg/Kg		71	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*67*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-68224/2-A
Matrix: Solid
Analysis Batch: 68206

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68224

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09912		mg/Kg		99	70 - 130	19	35

QC Sample Results

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

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

Lab Sample ID: LCSD 880-68224/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 68206 — **Prep Batch: 68224**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08966		mg/Kg		90	70 - 130	2	35
Ethylbenzene			0.100	0.09665		mg/Kg		97	70 - 130	31	35
m-Xylene & p-Xylene			0.200	0.2144		mg/Kg		107	70 - 130	35	35
o-Xylene			0.100	0.09987		mg/Kg		100	70 - 130	33	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-36380-A-4-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 68206 — **Prep Batch: 68224**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0996	0.08775		mg/Kg		88	70 - 130
Toluene	<0.00201	U	0.0996	0.08890		mg/Kg		89	70 - 130
Ethylbenzene	<0.00201	U	0.0996	0.08145		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1792		mg/Kg		90	70 - 130
o-Xylene	<0.00201	U	0.0996	0.08598		mg/Kg		86	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-36380-A-4-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 68206 — **Prep Batch: 68224**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.1031		mg/Kg		103	70 - 130	16	35
Toluene	<0.00201	U	0.100	0.09492		mg/Kg		95	70 - 130	7	35
Ethylbenzene	<0.00201	U	0.100	0.08704		mg/Kg		87	70 - 130	7	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1964		mg/Kg		98	70 - 130	9	35
o-Xylene	<0.00201	U	0.100	0.09548		mg/Kg		95	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-68308/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 68204 — **Prep Batch: 68308**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/04/23 15:34	12/05/23 01:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/04/23 15:34	12/05/23 01:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/04/23 15:34	12/05/23 01:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/04/23 15:34	12/05/23 01:48	1

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit 025H (10.24.23)

Job ID: 880-36411-1

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

Lab Sample ID: MB 880-68308/5-A
Matrix: Solid
Analysis Batch: 68204

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68308

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/04/23 15:34	12/05/23 01:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/04/23 15:34	12/05/23 01:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*	*12/04/23 15:34*	*12/05/23 01:48*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*12/04/23 15:34*	*12/05/23 01:48*	*1*

Lab Sample ID: LCS 880-68308/1-A
Matrix: Solid
Analysis Batch: 68204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68308

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09187		mg/Kg		92	70 - 130
Toluene	0.100	0.09078		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09132		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1934		mg/Kg		97	70 - 130
o-Xylene	0.100	0.1077		mg/Kg		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-68308/2-A
Matrix: Solid
Analysis Batch: 68204

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68308

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08797		mg/Kg		88	70 - 130	4	35
Toluene	0.100	0.08320		mg/Kg		83	70 - 130	9	35
Ethylbenzene	0.100	0.08124		mg/Kg		81	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1604		mg/Kg		80	70 - 130	19	35
o-Xylene	0.100	0.09336		mg/Kg		93	70 - 130	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-36273-A-41-B MS
Matrix: Solid
Analysis Batch: 68204

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 68308

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0992	0.08565		mg/Kg		86	70 - 130
Toluene	<0.00200	U	0.0992	0.1083		mg/Kg		109	70 - 130
Ethylbenzene	<0.00200	U	0.0992	0.1130		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.198	0.2124		mg/Kg		107	70 - 130
o-Xylene	<0.00200	U	0.0992	0.1066		mg/Kg		107	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit 025H (10.24.23)

Job ID: 880-36411-1

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

Lab Sample ID: 880-36273-A-41-B MS
Matrix: Solid
Analysis Batch: 68204

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 68308

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	163	S1+	70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-36273-A-41-C MSD
Matrix: Solid
Analysis Batch: 68204

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 68308

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.101	0.1144		mg/Kg		113	70 - 130	29	35
Toluene	<0.00200	U	0.101	0.1149		mg/Kg		114	70 - 130	6	35
Ethylbenzene	<0.00200	U	0.101	0.1174		mg/Kg		116	70 - 130	4	35
m-Xylene & p-Xylene	<0.00400	U	0.202	0.2401		mg/Kg		119	70 - 130	12	35
o-Xylene	<0.00200	U	0.101	0.1283		mg/Kg		127	70 - 130	18	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	171	S1+	70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-68386/1-A
Matrix: Solid
Analysis Batch: 68368

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68386

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/23 07:30	12/05/23 07:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/23 07:30	12/05/23 07:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/23 07:30	12/05/23 07:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	192	S1+	70 - 130	12/05/23 07:30	12/05/23 07:57	1
o-Terphenyl	183	S1+	70 - 130	12/05/23 07:30	12/05/23 07:57	1

Lab Sample ID: LCS 880-68386/2-A
Matrix: Solid
Analysis Batch: 68368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68386

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1179		mg/Kg		118	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1191		mg/Kg		119	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	115		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit 025H (10.24.23)

Job ID: 880-36411-1

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

Lab Sample ID: LCSD 880-68386/3-A
Matrix: Solid
Analysis Batch: 68368

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68386

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1178		mg/Kg		118	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	1161		mg/Kg		116	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*112*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: 880-36387-A-4-F MS
Matrix: Solid
Analysis Batch: 68368

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 68386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	1188		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1010	1447	F1	mg/Kg		141	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*151*	*S1+*	*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: 880-36387-A-4-G MSD
Matrix: Solid
Analysis Batch: 68368

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 68386

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	<49.8	U	1010	1001		mg/Kg		97	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1010	1444	F1	mg/Kg		140	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*149*	*S1+*	*70 - 130*
o-Terphenyl	*106*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-68191/1-A
Matrix: Solid
Analysis Batch: 68272

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/04/23 19:44	1

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit 025H (10.24.23)

Job ID: 880-36411-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-68191/2-A
Matrix: Solid
Analysis Batch: 68272

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	252.5		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-68191/3-A
Matrix: Solid
Analysis Batch: 68272

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	261.3		mg/Kg		105	90 - 110	3	20

Lab Sample ID: 890-5709-A-3-B MS
Matrix: Solid
Analysis Batch: 68272

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	191		251	434.1		mg/Kg		97	90 - 110		

Lab Sample ID: 890-5709-A-3-C MSD
Matrix: Solid
Analysis Batch: 68272

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	191		251	435.3		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-68203/1-A
Matrix: Solid
Analysis Batch: 68314

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/04/23 21:01	1

Lab Sample ID: LCS 880-68203/2-A
Matrix: Solid
Analysis Batch: 68314

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.7		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-68203/3-A
Matrix: Solid
Analysis Batch: 68314

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	251.0		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-36411-1 MS
Matrix: Solid
Analysis Batch: 68314

Client Sample ID: CS-1 (5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	15.4		251	277.5		mg/Kg		105	90 - 110		

QC Sample Results

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-36411-1 MSD
Client Sample ID: CS-1 (5')
Matrix: Solid
Prep Type: Soluble
Analysis Batch: 68314

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	15.4		251	284.0		mg/Kg		107	90 - 110	2	20

QC Association Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit 025H (10.24.23)

Job ID: 880-36411-1

GC VOA

Analysis Batch: 68204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36411-11	SW-6 (5')	Total/NA	Solid	8021B	68308
MB 880-68223/5-A	Method Blank	Total/NA	Solid	8021B	68223
MB 880-68308/5-A	Method Blank	Total/NA	Solid	8021B	68308
LCS 880-68308/1-A	Lab Control Sample	Total/NA	Solid	8021B	68308
LCSD 880-68308/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	68308
880-36273-A-41-B MS	Matrix Spike	Total/NA	Solid	8021B	68308
880-36273-A-41-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	68308

Analysis Batch: 68206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36411-1	CS-1 (5')	Total/NA	Solid	8021B	68224
880-36411-2	CS-2 (5')	Total/NA	Solid	8021B	68224
880-36411-3	CS-3 (5')	Total/NA	Solid	8021B	68224
880-36411-4	CS-4 (5')	Total/NA	Solid	8021B	68224
880-36411-5	CS-5 (5')	Total/NA	Solid	8021B	68224
880-36411-6	SW-1 (5')	Total/NA	Solid	8021B	68224
880-36411-7	SW-2 (5')	Total/NA	Solid	8021B	68224
880-36411-8	SW-3 (5')	Total/NA	Solid	8021B	68224
880-36411-9	SW-4 (5')	Total/NA	Solid	8021B	68224
880-36411-10	SW-5 (5')	Total/NA	Solid	8021B	68224
MB 880-68224/5-A	Method Blank	Total/NA	Solid	8021B	68224
LCS 880-68224/1-A	Lab Control Sample	Total/NA	Solid	8021B	68224
LCSD 880-68224/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	68224
880-36380-A-4-C MS	Matrix Spike	Total/NA	Solid	8021B	68224
880-36380-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	68224

Prep Batch: 68223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-68223/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 68224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36411-1	CS-1 (5')	Total/NA	Solid	5035	
880-36411-2	CS-2 (5')	Total/NA	Solid	5035	
880-36411-3	CS-3 (5')	Total/NA	Solid	5035	
880-36411-4	CS-4 (5')	Total/NA	Solid	5035	
880-36411-5	CS-5 (5')	Total/NA	Solid	5035	
880-36411-6	SW-1 (5')	Total/NA	Solid	5035	
880-36411-7	SW-2 (5')	Total/NA	Solid	5035	
880-36411-8	SW-3 (5')	Total/NA	Solid	5035	
880-36411-9	SW-4 (5')	Total/NA	Solid	5035	
880-36411-10	SW-5 (5')	Total/NA	Solid	5035	
MB 880-68224/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-68224/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-68224/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-36380-A-4-C MS	Matrix Spike	Total/NA	Solid	5035	
880-36380-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 68308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36411-11	SW-6 (5')	Total/NA	Solid	5035	

QC Association Summary

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

GC VOA (Continued)

Prep Batch: 68308 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-68308/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-68308/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-68308/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-36273-A-41-B MS	Matrix Spike	Total/NA	Solid	5035	
880-36273-A-41-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 68404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36411-1	CS-1 (5')	Total/NA	Solid	Total BTEX	
880-36411-2	CS-2 (5')	Total/NA	Solid	Total BTEX	
880-36411-3	CS-3 (5')	Total/NA	Solid	Total BTEX	
880-36411-4	CS-4 (5')	Total/NA	Solid	Total BTEX	
880-36411-5	CS-5 (5')	Total/NA	Solid	Total BTEX	
880-36411-6	SW-1 (5')	Total/NA	Solid	Total BTEX	
880-36411-7	SW-2 (5')	Total/NA	Solid	Total BTEX	
880-36411-8	SW-3 (5')	Total/NA	Solid	Total BTEX	
880-36411-9	SW-4 (5')	Total/NA	Solid	Total BTEX	
880-36411-10	SW-5 (5')	Total/NA	Solid	Total BTEX	
880-36411-11	SW-6 (5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 68368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36411-1	CS-1 (5')	Total/NA	Solid	8015B NM	68386
880-36411-2	CS-2 (5')	Total/NA	Solid	8015B NM	68386
880-36411-3	CS-3 (5')	Total/NA	Solid	8015B NM	68386
880-36411-4	CS-4 (5')	Total/NA	Solid	8015B NM	68386
880-36411-5	CS-5 (5')	Total/NA	Solid	8015B NM	68386
880-36411-6	SW-1 (5')	Total/NA	Solid	8015B NM	68386
880-36411-7	SW-2 (5')	Total/NA	Solid	8015B NM	68386
880-36411-8	SW-3 (5')	Total/NA	Solid	8015B NM	68386
880-36411-9	SW-4 (5')	Total/NA	Solid	8015B NM	68386
880-36411-10	SW-5 (5')	Total/NA	Solid	8015B NM	68386
880-36411-11	SW-6 (5')	Total/NA	Solid	8015B NM	68386
MB 880-68386/1-A	Method Blank	Total/NA	Solid	8015B NM	68386
LCS 880-68386/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	68386
LCSD 880-68386/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	68386
880-36387-A-4-F MS	Matrix Spike	Total/NA	Solid	8015B NM	68386
880-36387-A-4-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	68386

Prep Batch: 68386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36411-1	CS-1 (5')	Total/NA	Solid	8015NM Prep	
880-36411-2	CS-2 (5')	Total/NA	Solid	8015NM Prep	
880-36411-3	CS-3 (5')	Total/NA	Solid	8015NM Prep	
880-36411-4	CS-4 (5')	Total/NA	Solid	8015NM Prep	
880-36411-5	CS-5 (5')	Total/NA	Solid	8015NM Prep	
880-36411-6	SW-1 (5')	Total/NA	Solid	8015NM Prep	
880-36411-7	SW-2 (5')	Total/NA	Solid	8015NM Prep	
880-36411-8	SW-3 (5')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

GC Semi VOA (Continued)

Prep Batch: 68386 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36411-9	SW-4 (5')	Total/NA	Solid	8015NM Prep	
880-36411-10	SW-5 (5')	Total/NA	Solid	8015NM Prep	
880-36411-11	SW-6 (5')	Total/NA	Solid	8015NM Prep	
MB 880-68386/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-68386/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-68386/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-36387-A-4-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-36387-A-4-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 68509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36411-1	CS-1 (5')	Total/NA	Solid	8015 NM	
880-36411-2	CS-2 (5')	Total/NA	Solid	8015 NM	
880-36411-3	CS-3 (5')	Total/NA	Solid	8015 NM	
880-36411-4	CS-4 (5')	Total/NA	Solid	8015 NM	
880-36411-5	CS-5 (5')	Total/NA	Solid	8015 NM	
880-36411-6	SW-1 (5')	Total/NA	Solid	8015 NM	
880-36411-7	SW-2 (5')	Total/NA	Solid	8015 NM	
880-36411-8	SW-3 (5')	Total/NA	Solid	8015 NM	
880-36411-9	SW-4 (5')	Total/NA	Solid	8015 NM	
880-36411-10	SW-5 (5')	Total/NA	Solid	8015 NM	
880-36411-11	SW-6 (5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 68191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36411-11	SW-6 (5')	Soluble	Solid	DI Leach	
MB 880-68191/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-68191/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-68191/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5709-A-3-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5709-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 68203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36411-1	CS-1 (5')	Soluble	Solid	DI Leach	
880-36411-2	CS-2 (5')	Soluble	Solid	DI Leach	
880-36411-3	CS-3 (5')	Soluble	Solid	DI Leach	
880-36411-4	CS-4 (5')	Soluble	Solid	DI Leach	
880-36411-5	CS-5 (5')	Soluble	Solid	DI Leach	
880-36411-6	SW-1 (5')	Soluble	Solid	DI Leach	
880-36411-7	SW-2 (5')	Soluble	Solid	DI Leach	
880-36411-8	SW-3 (5')	Soluble	Solid	DI Leach	
880-36411-9	SW-4 (5')	Soluble	Solid	DI Leach	
880-36411-10	SW-5 (5')	Soluble	Solid	DI Leach	
MB 880-68203/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-68203/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-68203/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-36411-1 MS	CS-1 (5')	Soluble	Solid	DI Leach	
880-36411-1 MSD	CS-1 (5')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

HPLC/IC

Analysis Batch: 68272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36411-11	SW-6 (5')	Soluble	Solid	300.0	68191
MB 880-68191/1-A	Method Blank	Soluble	Solid	300.0	68191
LCS 880-68191/2-A	Lab Control Sample	Soluble	Solid	300.0	68191
LCSD 880-68191/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	68191
890-5709-A-3-B MS	Matrix Spike	Soluble	Solid	300.0	68191
890-5709-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	68191

Analysis Batch: 68314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36411-1	CS-1 (5')	Soluble	Solid	300.0	68203
880-36411-2	CS-2 (5')	Soluble	Solid	300.0	68203
880-36411-3	CS-3 (5')	Soluble	Solid	300.0	68203
880-36411-4	CS-4 (5')	Soluble	Solid	300.0	68203
880-36411-5	CS-5 (5')	Soluble	Solid	300.0	68203
880-36411-6	SW-1 (5')	Soluble	Solid	300.0	68203
880-36411-7	SW-2 (5')	Soluble	Solid	300.0	68203
880-36411-8	SW-3 (5')	Soluble	Solid	300.0	68203
880-36411-9	SW-4 (5')	Soluble	Solid	300.0	68203
880-36411-10	SW-5 (5')	Soluble	Solid	300.0	68203
MB 880-68203/1-A	Method Blank	Soluble	Solid	300.0	68203
LCS 880-68203/2-A	Lab Control Sample	Soluble	Solid	300.0	68203
LCSD 880-68203/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	68203
880-36411-1 MS	CS-1 (5')	Soluble	Solid	300.0	68203
880-36411-1 MSD	CS-1 (5')	Soluble	Solid	300.0	68203

Lab Chronicle

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

Client Sample ID: CS-1 (5')
Lab Sample ID: 880-36411-1
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	68224	12/04/23 14:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68206	12/04/23 18:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68404	12/04/23 18:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			68509	12/05/23 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	68386	12/05/23 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/05/23 11:36	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	68203	12/04/23 14:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68314	12/04/23 22:37	CH	EET MID

Client Sample ID: CS-2 (5')
Lab Sample ID: 880-36411-2
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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	68224	12/04/23 14:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68206	12/04/23 18:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68404	12/04/23 18:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			68509	12/05/23 11:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	68386	12/05/23 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/05/23 11:58	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	68203	12/04/23 14:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68314	12/04/23 22:54	CH	EET MID

Client Sample ID: CS-3 (5')
Lab Sample ID: 880-36411-3
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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	68224	12/04/23 14:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68206	12/04/23 18:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68404	12/04/23 18:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			68509	12/05/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	68386	12/05/23 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/05/23 12:20	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	68203	12/04/23 14:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68314	12/04/23 22:59	CH	EET MID

Client Sample ID: CS-4 (5')
Lab Sample ID: 880-36411-4
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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	68224	12/04/23 14:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68206	12/04/23 19:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68404	12/04/23 19:15	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

Client Sample ID: CS-4 (5')
Lab Sample ID: 880-36411-4
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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			68509	12/05/23 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	68386	12/05/23 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/05/23 12:42	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	68203	12/04/23 14:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68314	12/04/23 23:16	CH	EET MID

Client Sample ID: CS-5 (5')
Lab Sample ID: 880-36411-5
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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	68224	12/04/23 14:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68206	12/04/23 19:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68404	12/04/23 19:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			68509	12/05/23 13:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	68386	12/05/23 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/05/23 13:04	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	68203	12/04/23 14:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68314	12/04/23 23:22	CH	EET MID

Client Sample ID: SW-1 (5')
Lab Sample ID: 880-36411-6
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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	68224	12/04/23 14:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68206	12/04/23 19:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68404	12/04/23 19:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			68509	12/05/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	68386	12/05/23 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/05/23 13:25	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	68203	12/04/23 14:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68314	12/04/23 23:28	CH	EET MID

Client Sample ID: SW-2 (5')
Lab Sample ID: 880-36411-7
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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	68224	12/04/23 14:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68206	12/04/23 20:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68404	12/04/23 20:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			68509	12/05/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	68386	12/05/23 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/05/23 13:47	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

Client Sample ID: SW-2 (5')
Lab Sample ID: 880-36411-7
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	68203	12/04/23 14:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68314	12/04/23 23:33	CH	EET MID

Client Sample ID: SW-3 (5')
Lab Sample ID: 880-36411-8
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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	68224	12/04/23 14:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68206	12/04/23 20:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68404	12/04/23 20:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			68509	12/05/23 14:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	68386	12/05/23 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/05/23 14:09	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	68203	12/04/23 14:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68314	12/04/23 23:39	CH	EET MID

Client Sample ID: SW-4 (5')
Lab Sample ID: 880-36411-9
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

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	68224	12/04/23 14:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68206	12/04/23 20:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68404	12/04/23 20:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			68509	12/05/23 14:31	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	68386	12/05/23 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/05/23 14:31	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	68203	12/04/23 14:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68314	12/04/23 23:45	CH	EET MID

Client Sample ID: SW-5 (5')
Lab Sample ID: 880-36411-10
Date Collected: 12/01/23 00:00
Matrix: Solid
Date Received: 12/04/23 13:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	68224	12/04/23 14:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68206	12/04/23 21:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68404	12/04/23 21:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			68509	12/05/23 15:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	68386	12/05/23 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/05/23 15:15	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	68203	12/04/23 14:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68314	12/04/23 23:50	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

Client Sample ID: SW-6 (5')
Lab Sample ID: 880-36411-11

Date Collected: 12/01/23 00:00
Matrix: Solid

Date Received: 12/04/23 13:52

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	68308	12/04/23 15:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68204	12/05/23 07:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68404	12/05/23 07:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			68509	12/05/23 15:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	68386	12/05/23 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/05/23 15:37	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	68191	12/04/23 14:08	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68272	12/04/23 22:41	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

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
Job ID: 880-36411-1
Project/Site: Lusk Deep Unit 025H (10.24.23)

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

Job ID: 880-36411-1

Project/Site: Lusk Deep Unit 025H (10.24.23)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36411-1	CS-1 (5')	Solid	12/01/23 00:00	12/04/23 13:52
880-36411-2	CS-2 (5')	Solid	12/01/23 00:00	12/04/23 13:52
880-36411-3	CS-3 (5')	Solid	12/01/23 00:00	12/04/23 13:52
880-36411-4	CS-4 (5')	Solid	12/01/23 00:00	12/04/23 13:52
880-36411-5	CS-5 (5')	Solid	12/01/23 00:00	12/04/23 13:52
880-36411-6	SW-1 (5')	Solid	12/01/23 00:00	12/04/23 13:52
880-36411-7	SW-2 (5')	Solid	12/01/23 00:00	12/04/23 13:52
880-36411-8	SW-3 (5')	Solid	12/01/23 00:00	12/04/23 13:52
880-36411-9	SW-4 (5')	Solid	12/01/23 00:00	12/04/23 13:52
880-36411-10	SW-5 (5')	Solid	12/01/23 00:00	12/04/23 13:52
880-36411-11	SW-6 (5')	Solid	12/01/23 00:00	12/04/23 13:52

Page 115 of 133

880-36411 Chain of Custody

12/6/2023

Page 1 of 2

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

Work Order Comments

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

State of Project:

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

Deliverables. EDD ☐ ADaPT ☐ Other

Project Name:	Lusk Deep Unit 028H (10.24.23)	Turn Around	
Project Number	2195	☐ Routine ☑ Rush	
Project Location	Lea County, New Mexico	Due Date	24 HR
Sampler's Name.	JR		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID	178
Cooler Custody Seals	Yes No N/A	Correction Factor	0.2
Sample Custody Seals	Yes No N/A	Temperature Reading:	-0.8
Total Containers.		Corrected Temperature.	-0.6

Preservative Codes

None: NO DI Water H_2O

Cool Cool MeOH Me

HCL. HC HNO_3. HN

H_2S0_4. H_2 NaOH Na

H_3PO_4: HP

$NaHSO_4$. NABIS

$Na_2S_2O_3$. $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
CS-1 (5')	12/1/2023		X		C	1	X	X	X	
CS-2 (5')	12/1/2023		X		C	1	X	X	X	
CS-3 (5')	12/1/2023		X		C	1	X	X	X	
CS-4 (5')	12/1/2023		X		C	1	X	X	X	
CS-5 (5')	12/1/2023		X		C	1	X	X	X	
SW-1 (5')	12/1/2023		X		C	1	X	X	X	
SW-2 (5')	12/1/2023		X		C	1	X	X	X	
SW-3 (5')	12/1/2023		X		C	1	X	X	X	
SW-4 (5')	12/1/2023		X		C	1	X	X	X	
SW-5 (5')	12/1/2023		X		C	1	X	X	X	

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Amanda Ames	12-4-23		12/4/23 1352

Page 36 of 38

Received by OCD: 1/25/2024 9:54:33 AM

Released to Imaging: 4/1/2024 7:45:25 AM

Page 116 of 133

Work Order No: _____

12/6/2023

Page 2 of 2

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

Work Order Comments

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

State of Project:

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

Deliverables. EDD ☐ ADaPT ☐ Other

Project Name:	Lusk Deep Unit 028H (10.24.23)	Turn Around	
Project Number	2195	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	24 HR
Sampler's Name	JR		
PO #:			

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

Preservative Codes

None. NO — DI Water H_2O

Cool Cool — MeOH Me

HCL. HC — HNO_3. HN

H_2SO_4. H_2 — NaOH Na

H_3PO_4. HP

$NaHSO_4$. NABIS

$Na_2S_2O_3$. $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
SW-6 (5')	12/1/2023		X		C	1		X	X	X	

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Arnema Hues	12-4-23		

Page 37 of 38

Received by OCD: 1/25/2024 9:54:33 AM

Released to Imaging: 4/1/2024 7:45:25 AM

Login Sample Receipt Checklist

Client: Carmona Resources Job Number: 880-36411-1

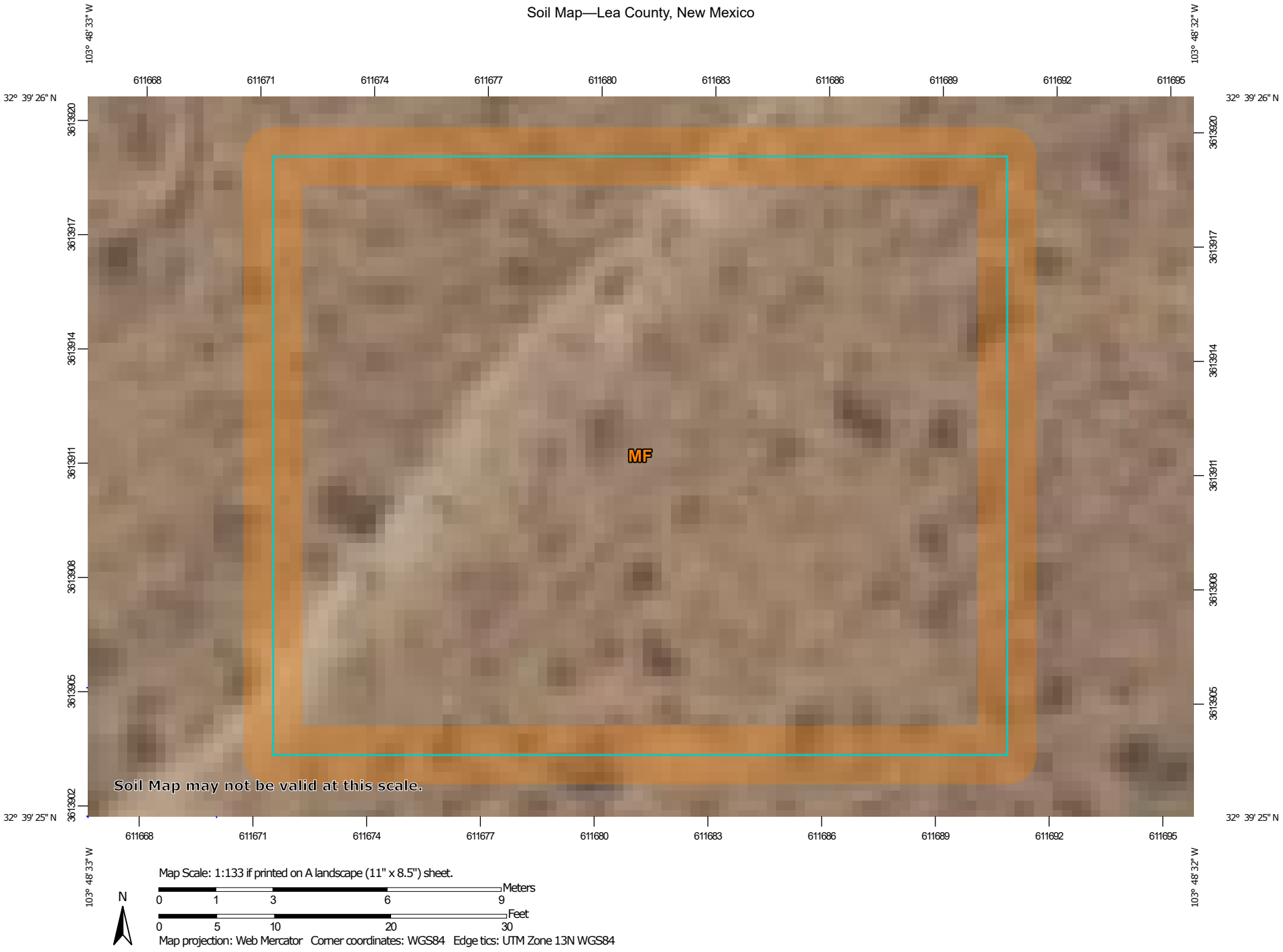
Login Number: 36411 **List Source: Eurofins Midland**
List Number: 1
Creator: Kramer, Jessica

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.	True	
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

Soil Map—Lea County, New Mexico



Map Scale: 1:133 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 1 3 6 9

Feet
0 5 10 20 30

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

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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.

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
MF	Maljamar and Palomas fine sands, 0 to 3 percent slopes	0.1	100.0%
Totals for Area of Interest		**0.1**	**100.0%**

Lea County, New Mexico

MF—Maljamar and Palomas fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: dmqb
Elevation: 3,000 to 3,900 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: Farmland of statewide importance

Map Unit Composition

Maljamar and similar soils: 46 percent
Palomas and similar soils: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Maljamar

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 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 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 7e

Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Palomas

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand
Bt - 16 to 60 inches: sandy clay loam
Bk - 60 to 66 inches: sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 45 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 5 percent
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Wink

Percent of map unit: 5 percent
Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

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:

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

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

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1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 307705
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2333132247**
Incident Name	**NAPP2333132247 LUSK DEEP UNIT 028H @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Facility	**[fAPP2204035872] LUSK DEEP A #28H - BATT**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	LUSK DEEP UNIT 028H
Date Release Discovered	10/24/2023
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Other | Flow Line - Production | Produced Water | Released: 7 BBL | Recovered: 0 BBL | Lost: 7 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 307705
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QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/25/2024

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QUESTIONS (continued)

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	Action Number: 307705
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	0
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	11/29/2023
On what date will (or did) the final sampling or liner inspection occur	11/30/2023
On what date will (or was) the remediation complete(d)	12/08/2023
What is the estimated surface area (in square feet) that will be reclaimed	1000
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	850
What is the estimated volume (in cubic yards) that will be remediated	220
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 307705
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	LUSK DEEP A #28H - BATT [fAPP2204035872]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/25/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 307705
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 307705
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**307727**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**11/20/2023**
What was the (estimated) number of samples that were to be gathered	**5**
What was the sampling surface area in square feet	**0**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	840
What was the total volume (cubic yards) remediated	220
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1000
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Nothing additional to report

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/25/2024

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 307705
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 307705

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	229137
	Action Number: 307705
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	4/1/2024