CARMONA RESOURCES

SITE INFORMATION

Closure Report
Lusk Deep Unit A 23H (10.13.22)
Lea County, New Mexico
Incident ID: NAPP2236142226
Unit P Sec 19 T19S R32E
32.639606°, -103.798233°

Crude Oil Release
Point of Release: Failed Valve
Release Date: 10.13.2022
Volume Released: 0.742 barrels of Crude Oil
Volume Recovered: 0 barrels of Crude Oil

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

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

CARMONA RESOURCES

January 10, 2023

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

Re: Closure Report
Lusk Deep A 23H (10.13.22)
Concho Operating, LLC
Site Location: Unit P, S19, T19S, R32E
(Lat 32.639606º, Long -103.798233º)
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 remediation activities at the Lusk Deep A 23H (10.13.22). The site is located at 32.639606, -103.798233 within Unit P, S19, T19S, R32E, and 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 13, 2022, due to a failed pressure valve that caused mist to come out of a flare. It released zero point seven three two (0.742) barrels of crude oil, and zero (0) barrel were recovered. The impacted area occurred partially on the pad and partially in the pasture. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water source is located within a 0.50-mile radius of the location. The nearest identified well is approximately 0.62 miles Northeast of the site in S20, T19S, R32E and was drilled in 1982. The well has a reported depth to groundwater of 345' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, 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 October 20, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of three (3) sample points (S-1 through S-3) and four (4) horizontal sample points (H-1 through H-4) were installed to total depths ranging from surface to 4.0 ft below the surface. Soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of

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

CARMONA RESOURCES

laboratory analysis and chain-of-custody documentation are included in Appendix E. The sample locations are shown in Figure 3.

In Table 1, The areas of S-1 showed high TPH concentrations from the surface to 1.0' below the surface. The areas of S-2 showed elevated TPH and BTEX concentrations ranging from surface to 4.0' below the surface.

All horizontal extents (H-1 through H-4) were below the regulatory limits for BTEX, TPH, and Chloride. Refer to Table 1.

5.0 Remediation Activities

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on November 14, 2022, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 was excavated to a depth of 5.5' below the surface to remove all the impacted soils. The area of S-2 was excavated to a depth of 1.5' below the surface to remove all the impacted soils. A total of four (4) floor confirmation samples were collected (CS-1 through CS-4), and ten (10) sidewall samples (SW-1 through SW-10) 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.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 95 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

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

Sincerely,
Carmona Resources, LLC

Ashton Thielke
St. Project Manager

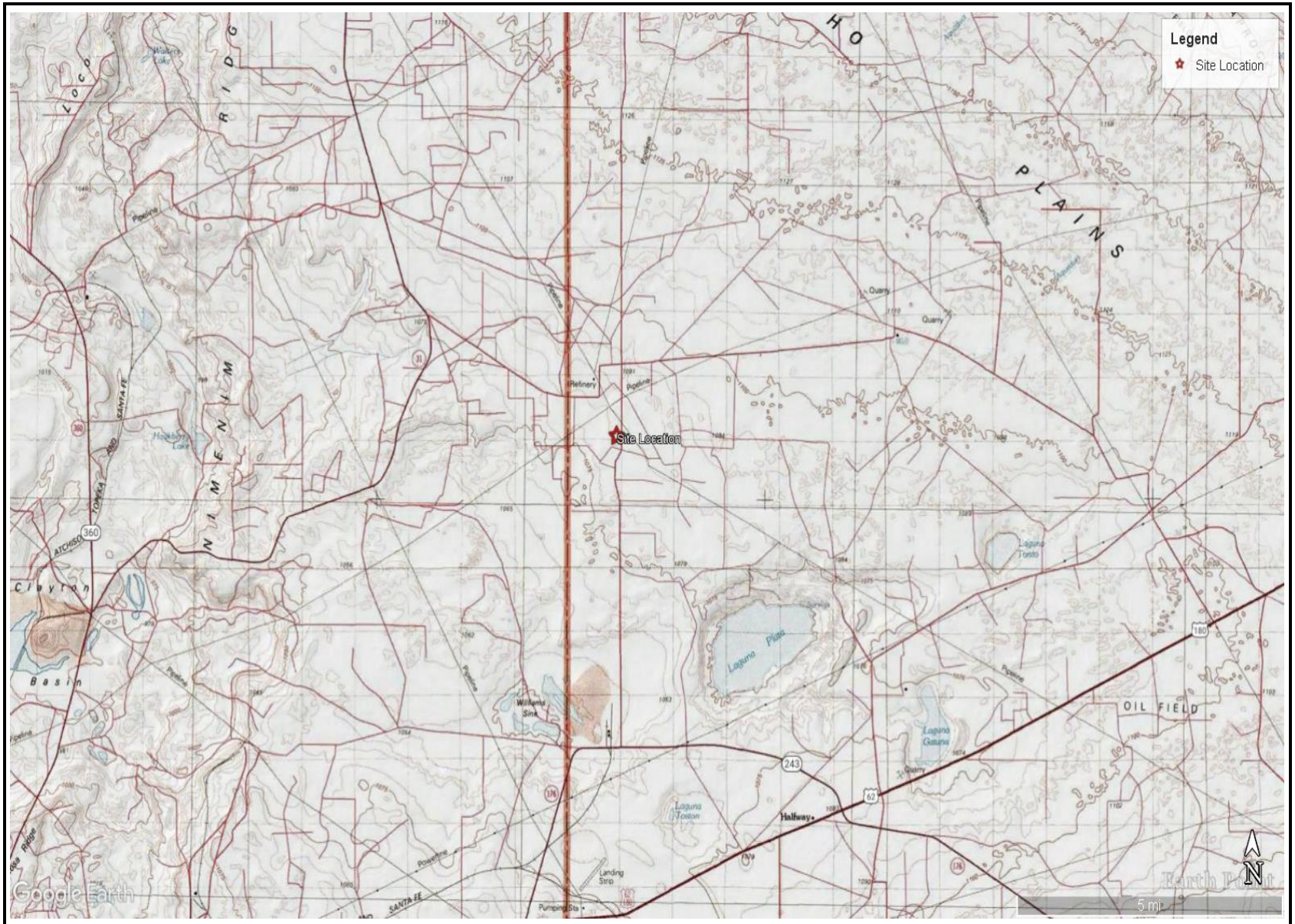
Conner Moehring
Sr. Project Manager

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

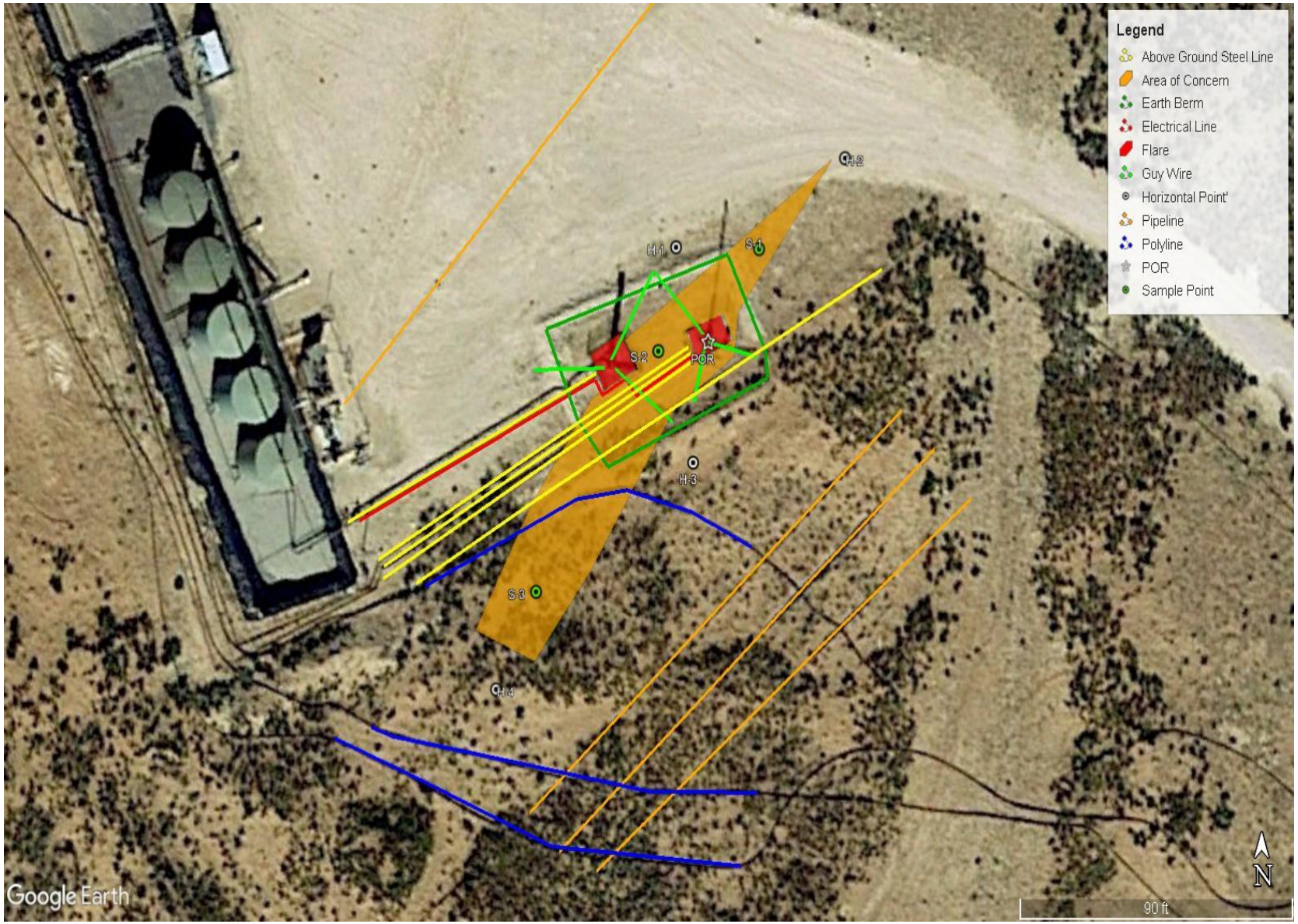
FIGURES

CARMONA RESOURCES

OVERVIEW MAP COG OPERATING LUSK DEEP UNIT A 23H (10.13.22) LEA COUNTY, NEW MEXICO 32.639606 -103.798233	CARMONA RESOURCES	FIGURE 1



TOPOGRAPHIC MAP COG OPERATING LUSK DEEP UNIT A 23H (10.13.22) LEA COUNTY, NEW MEXICO 32.639606 -103.798233	CARMONA RESOURCES	FIGURE 2



SAMPLE LOCATION MAP COG OPERATING LUSK DEEP UNIT A 23H (10.13.22) LEA COUNTY, NEW MEXICO 32.639606 -103.798233	CARMONA RESOURCES	FIGURE 3

EXCAVATION DEPTH MAP COG OPERATING LUSK DEEP UNIT A 23H (10.13.22) LEA COUNTY, NEW MEXICO 32.639606 -103.798233	CARMONA RESOURCES	FIGURE 4

APPENDIX A

CARMONA RESOURCES

Table 1
COG
Lusk Deep Unit A 23H (10.13.22)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	10/20/2022	0-1	<49.8	**974**	**106**	**1,080**	<0.00201	0.121	0.307	0.724	1.15	16.7
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	18.1
	"	2.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	14.0
	"	2.5	<49.9	<49.9	<49.9	<49.9	0.00398	0.0233	0.00738	0.0107	0.0453	21.8
S-2	10/20/2022	0-1	**3,000**	**4,450**	**473**	**7,920**	**29.1**	658	105	151	**943**	21.4
	"	1.5	**197**	**528**	60.1	**785**	0.295	6.42	4.87	9.11	20.7	23.3
	"	2.0	**578**	**1,620**	**179**	**2,380**	0.681	17.3	23.8	19.6	**61.4**	23.4
	"	2.5	77.7	**389**	<50.0	**467**	<0.0401	1.44	1.49	3.11	6.04	22.2
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00200	0.0120	0.0220	0.0431	0.0771	24.3
	"	3.5	<50.0	**151**	<50.0	**151**	<0.00199	0.0636	0.133	0.259	0.455	42.8
	"	4.0	<49.9	**114**	<49.9	**114**	0.0201	0.0299	0.0113	0.0170	0.0783	39.4
S-3	10/20/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	16.2
	"	0.5	<49.8	92.6	<49.8	92.6	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	44.0
	"	1.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	20.2
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	15.8
H-1	10/20/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	13.8
H-2	10/20/2022	0.-0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	23.8
H-3	10/20/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	16.2
H-4	10/20/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	11.5
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
COG
Lusk Deep Unit A 23H (10.13.22)
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	11/16/2022	5.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	70.8
CS-2	11/16/2022	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	65.6
CS-3	11/16/2022	1.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	52.1
CS-4	11/16/2022	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	53.5
SW-1	11/16/2022	5.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	55.4
SW-2	11/16/2022	5.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	56.4
SW-3	11/16/2022	5.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	55.3
SW-4	11/16/2022	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	50.9
SW-5	11/16/2022	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	55.6
SW-6	11/16/2022	1.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	56.1
SW-7	11/16/2022	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	58.0
SW-8	11/16/2022	5.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	50.1
SW-9	11/16/2022	5.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	54.5
SW-10	11/16/2022	4.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	50.1
Regulatory Criteria [A]						**100 mg/kg**	**10 mg/kg**	-	-	-	**50 mg/kg**	**600 mg/kg**

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

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 1

Facility: Lusk Deep A 23H (10.13.22)

County: Lea County, New Mexico

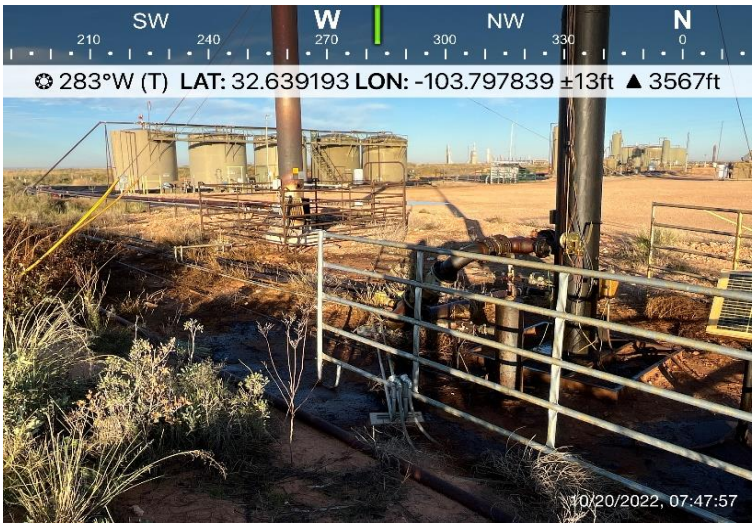
Description:
View Southwest, Area of Release.

Photograph No. 2

Facility: Lusk Deep A 23H (10.13.22)

County: Lea County, New Mexico

Description:
View West, Area of Release.



Photograph No. 3

Facility: Lusk Deep A 23H (10.13.22)

County: Lea County, New Mexico

Description:
View North, Area of Release.

PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 4

Facility: Lusk Deep A 23H (10.13.22)

County: Lea County, New Mexico

Description:
View Northeast, View of Confirmation Sample (CS-1).

Photograph No. 5

Facility: Lusk Deep A 23H (10.13.22)

County: Lea County, New Mexico

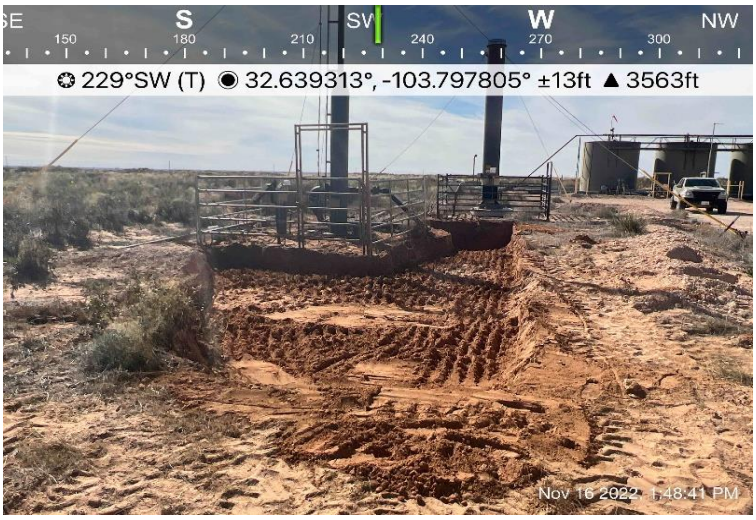
Description:
View Northeast, View of Confirmation Samples (CS-2 through CS-4).

Photograph No. 6

Facility: Lusk Deep A 23H (10.13.22)

County: Lea County, New Mexico

Description:
View Southwest, View of Confirmation Samples (CS-2 through CS-4).



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: Jacqui Harris _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon _____ Date: 12/27/2022

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

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

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 170183
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	12/27/2022

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Jacqui Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 01/12/2023

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: Jacqui Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 01/12/2023

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

Closure Approved by: Jennifer Nobui Date: _____

Printed Name: _____ Title: _____

From: Conner Moehring
Sent: Monday, November 14, 2022 7:52 AM
To: OCD.Enviro@emnrd.nm.gov <OCD.Enviro@emnrd.nm.gov>
Cc: Mike Carmona; Jacqui.Harris@conocophillips.com
Subject: COG - Lusk Deep A 23H - Sampling Notification

Good Morning,

On behalf of COG, Carmona Resources will collect confirmation samples for the at-risk remediation at the below-referenced site on 11/16/22 around 8:00 a.m. Mountain Time. Please let me know if you have any questions.

COG – Lusk Deep A 23H
Lea County, New Mexico
32.639210, -103.797942
Unit: P Sec 19 T19S R32E
API: 30-025-40260

Conner R. Moehring
310 West Wall Street, Suite 415
Midland Texas, 79701
M: 432-813-6823
Cmoehring@carmonaresources.com

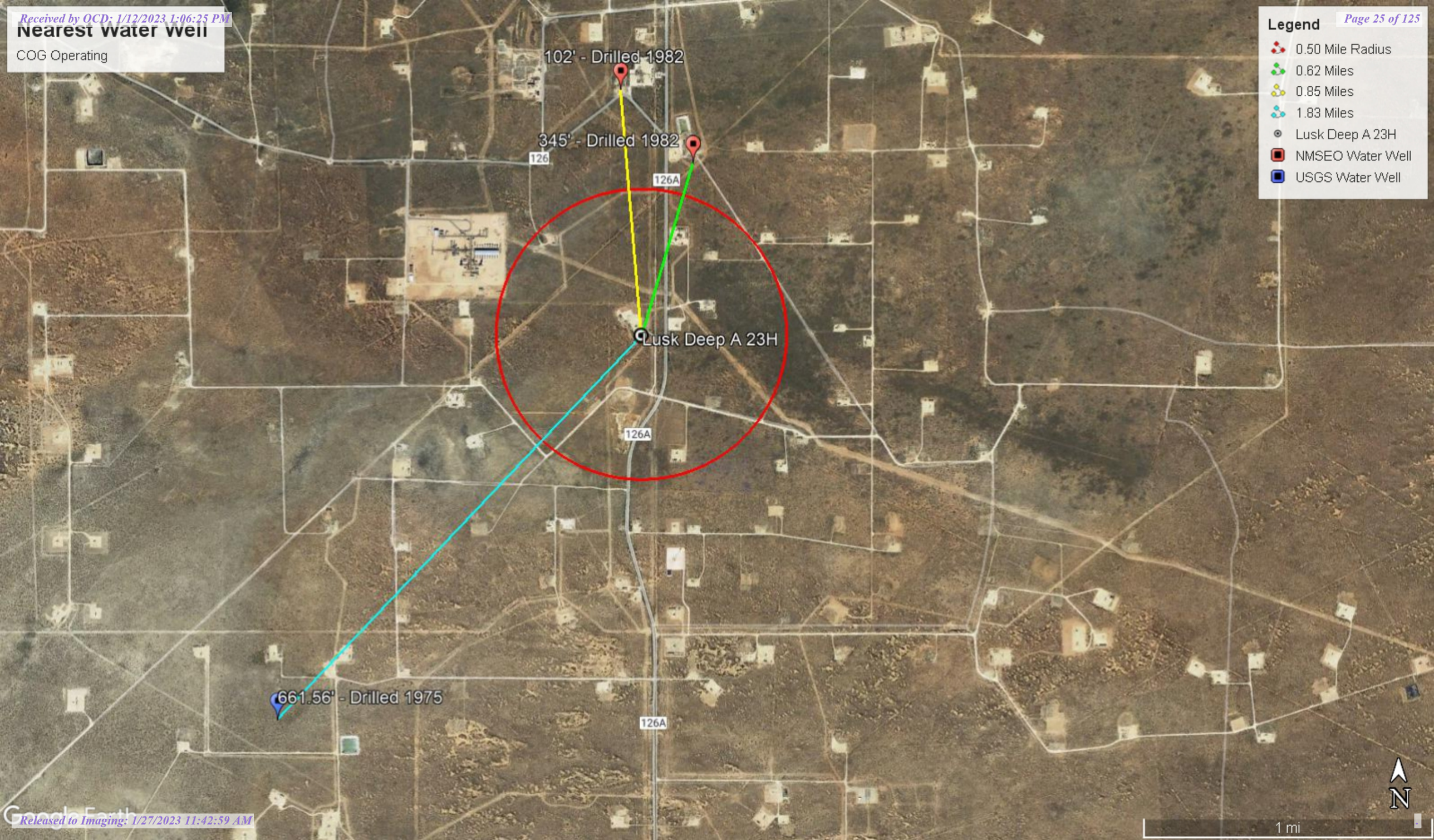
CARMONA RESOURCES

APPENDIX D

CARMONA RESOURCES

Nearest Water Well

COG Operating



Low Karst

COG Operating

Legend

Low

Lusk Deep A 23H

248

126

126A

Lusk Deep A 23H

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 00639 POD1	CP	LE		3	1	20	19S	32E	613029	3612880*	989	350	345	5
CP 00640 POD1	CP	LE		2	2	19	19S	32E	612621	3613280*	1357	260	102	158
CP 00563 POD1	CP	LE	1	1	2	19	19S	32E	612118	3613376*	1581	300		
CP 00642 POD1	CP	ED		2	2	25	19S	31E	611025	3611657*	1751	250		
CP 01656 POD3	CP	LE	3	4	3	17	19S	32E	613374	3613633	1813	30		
CP 01656 POD2	CP	LE	3	4	3	17	19S	32E	613364	3613648	1823	70		
CP 01656 POD1	CP	LE	3	4	3	17	19S	32E	613368	3613646	1823	70		
CP 00641 POD1	CP	ED		4	1	36	19S	31E	610247	3609634*	3399	300	130	170

Average Depth to Water: **192 feet**
Minimum Depth: **102 feet**
Maximum Depth: **345 feet**

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 612755 **Northing (Y):** 3611929 **Radius:** 4000

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

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	Twn	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**

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**

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

Groundwater | New Mexico | GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 323712103491001

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 323712103491001 19S.32E.31.114

Lea County, New Mexico
Latitude 32°37'12", Longitude 103°49'10" NAD27
Land-surface elevation 3,497 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1966-09		M	62610		2974.45	NGVD29	1	Z		
1966-09		M	62611		2976.01	NAVD88	1	Z		
1966-09		M	72019	520.99			1	Z		
1967-07		M	62610		2990.31	NGVD29	1	Z		
1967-07		M	62611		2991.87	NAVD88	1	Z		
1967-07		M	72019	505.13			1	Z		
1967-09		M	62610		2986.43	NGVD29	1	Z		
1967-09		M	62611		2987.99	NAVD88	1	Z		
1967-09		M	72019	509.01			1	Z		
1967-11		M	62610		2982.96	NGVD29	1	Z		
1967-11		M	62611		2984.52	NAVD88	1	Z		
1967-11		M	72019	512.48			1	Z		
1968-01		M	62610		2979.75	NGVD29	1	Z		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	
1968-01		M	62611	2981.31	NAVD88	1	Z
1968-01		M	72019	515.69		1	Z
1968-03		M	62610	2976.92	NGVD29	1	Z
1968-03		M	62611	2978.48	NAVD88	1	Z
1968-03		M	72019	518.52		1	Z
1968-05		M	62610	2973.44	NGVD29	1	Z
1968-05		M	62611	2975.00	NAVD88	1	Z
1968-05		M	72019	522.00		1	Z
1968-07		M	62610	2968.86	NGVD29	1	Z
1968-07		M	62611	2970.42	NAVD88	1	Z
1968-07		M	72019	526.58		1	Z
1968-09		M	62610	2965.05	NGVD29	1	Z
1968-09		M	62611	2966.61	NAVD88	1	Z
1968-09		M	72019	530.39		1	Z
1968-11		M	62610	2961.60	NGVD29	1	Z
1968-11		M	62611	2963.16	NAVD88	1	Z
1968-11		M	72019	533.84		1	Z
1969-01		M	62610	2958.39	NGVD29	1	Z
1969-01		M	62611	2959.95	NAVD88	1	Z
1969-01		M	72019	537.05		1	Z
1969-03		M	62610	2954.31	NGVD29	1	Z
1969-03		M	62611	2955.87	NAVD88	1	Z
1969-03		M	72019	541.13		1	Z
1969-05		M	62610	2950.86	NGVD29	1	Z
1969-05		M	62611	2952.42	NAVD88	1	Z
1969-05		M	72019	544.58		1	Z
1969-07		M	62610	2947.00	NGVD29	1	Z
1969-07		M	62611	2948.56	NAVD88	1	Z
1969-07		M	72019	548.44		1	Z
1969-09		M	62610	2943.31	NGVD29	1	Z
1969-09		M	62611	2944.87	NAVD88	1	Z
1969-09		M	72019	552.13		1	Z
1969-11		M	62610	2940.77	NGVD29	1	Z
1969-11		M	62611	2942.33	NAVD88	1	Z
1969-11		M	72019	554.67		1	Z
1970-01		M	62610	2938.01	NGVD29	1	Z
1970-01		M	62611	2939.57	NAVD88	1	Z
1970-01		M	72019	557.43		1	Z
1970-03		M	62610	2936.13	NGVD29	1	Z
1970-03		M	62611	2937.69	NAVD88	1	Z
1970-03		M	72019	559.31		1	Z
1970-05		M	62610	2932.48	NGVD29	1	Z
1970-05		M	62611	2934.04	NAVD88	1	Z
1970-05		M	72019	562.96		1	Z
1970-07		M	62610	2928.11	NGVD29	1	Z
1970-07		M	62611	2929.67	NAVD88	1	Z
1970-07		M	72019	567.33		1	Z
1970-09		M	62610	2923.92	NGVD29	1	Z
1970-09		M	62611	2925.48	NAVD88	1	Z
1970-09		M	72019	571.52		1	Z

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	
1970-11	M	62610	2921.27	NGVD29	1	Z	
1970-11	M	62611	2922.83	NAVD88	1	Z	
1970-11	M	72019	574.17		1	Z	
1971-01	M	62610	2917.43	NGVD29	1	Z	
1971-01	M	62611	2918.99	NAVD88	1	Z	
1971-01	M	72019	578.01		1	Z	
1971-03	M	62610	2914.32	NGVD29	1	Z	
1971-03	M	62611	2915.88	NAVD88	1	Z	
1971-03	M	72019	581.12		1	Z	
1971-05	M	62610	2908.92	NGVD29	1	Z	
1971-05	M	62611	2910.48	NAVD88	1	Z	
1971-05	M	72019	586.52		1	Z	
1971-07	M	62610	2904.68	NGVD29	1	Z	
1971-07	M	62611	2906.24	NAVD88	1	Z	
1971-07	M	72019	590.76		1	Z	
1971-09	M	62610	2901.09	NGVD29	1	Z	
1971-09	M	62611	2902.65	NAVD88	1	Z	
1971-09	M	72019	594.35		1	Z	
1971-11	M	62610	2898.49	NGVD29	1	Z	
1971-11	M	62611	2900.05	NAVD88	1	Z	
1971-11	M	72019	596.95		1	Z	
1972-01	M	62610	2896.02	NGVD29	1	Z	
1972-01	M	62611	2897.58	NAVD88	1	Z	
1972-01	M	72019	599.42		1	Z	
1972-03	M	62610	2893.24	NGVD29	1	Z	
1972-03	M	62611	2894.80	NAVD88	1	Z	
1972-03	M	72019	602.20		1	Z	
1972-05	M	62610	2889.97	NGVD29	1	Z	
1972-05	M	62611	2891.53	NAVD88	1	Z	
1972-05	M	72019	605.47		1	Z	
1972-07	M	62610	2886.81	NGVD29	1	Z	
1972-07	M	62611	2888.37	NAVD88	1	Z	
1972-07	M	72019	608.63		1	Z	
1972-09	M	62610	2884.10	NGVD29	1	Z	
1972-09	M	62611	2885.66	NAVD88	1	Z	
1972-09	M	72019	611.34		1	Z	
1972-11	M	62610	2882.57	NGVD29	1	Z	
1972-11	M	62611	2884.13	NAVD88	1	Z	
1972-11	M	72019	612.87		1	Z	
1973-01	M	62610	2880.52	NGVD29	1	Z	
1973-01	M	62611	2882.08	NAVD88	1	Z	
1973-01	M	72019	614.92		1	Z	
1973-03	M	62610	2879.59	NGVD29	1	Z	
1973-03	M	62611	2881.15	NAVD88	1	Z	
1973-03	M	72019	615.85		1	Z	
1973-05	M	62610	2874.74	NGVD29	1	Z	
1973-05	M	62611	2876.30	NAVD88	1	Z	
1973-05	M	72019	620.70		1	Z	
1973-07	M	62610	2871.78	NGVD29	1	Z	
1973-07	M	62611	2873.34	NAVD88	1	Z	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum		Referenced vertical datum	
1973-07	M	72019	623.66			1	Z	
1973-09	M	62610		2865.11	NGVD29	1	Z	
1973-09	M	62611		2866.67	NAVD88	1	Z	
1973-09	M	72019	630.33			1	Z	
1973-11	M	62610		2862.56	NGVD29	1	Z	
1973-11	M	62611		2864.12	NAVD88	1	Z	
1973-11	M	72019	632.88			1	Z	
1974-01	M	62610		2859.06	NGVD29	1	Z	
1974-01	M	62611		2860.62	NAVD88	1	Z	
1974-01	M	72019	636.38			1	Z	
1974-03	M	62610		2856.03	NGVD29	1	Z	
1974-03	M	62611		2857.59	NAVD88	1	Z	
1974-03	M	72019	639.41			1	Z	
1974-05	M	62610		2850.30	NGVD29	1	Z	
1974-05	M	62611		2851.86	NAVD88	1	Z	
1974-05	M	72019	645.14			1	Z	
1974-09	M	62610		2844.19	NGVD29	1	Z	
1974-09	M	62611		2845.75	NAVD88	1	Z	
1974-09	M	72019	651.25			1	Z	
1975-03-21	D	62610		2839.65	NGVD29	1	Z	
1975-03-21	D	62611		2841.21	NAVD88	1	Z	
1975-03-21	D	72019	655.79			1	Z	
1975-03-22	D	62610		2839.78	NGVD29	1	Z	
1975-03-22	D	62611		2841.34	NAVD88	1	Z	
1975-03-22	D	72019	655.66			1	Z	
1975-03-23	D	62610		2839.84	NGVD29	1	Z	
1975-03-23	D	62611		2841.40	NAVD88	1	Z	
1975-03-23	D	72019	655.60			1	Z	
1975-03-24	D	62610		2839.59	NGVD29	1	Z	
1975-03-24	D	62611		2841.15	NAVD88	1	Z	
1975-03-24	D	72019	655.85			1	Z	
1975-03-25	D	62610		2839.58	NGVD29	1	Z	
1975-03-25	D	62611		2841.14	NAVD88	1	Z	
1975-03-25	D	72019	655.86			1	Z	
1975-03-26	D	62610		2839.79	NGVD29	1	Z	
1975-03-26	D	62611		2841.35	NAVD88	1	Z	
1975-03-26	D	72019	655.65			1	Z	
1975-03-27	D	62610		2839.74	NGVD29	1	Z	
1975-03-27	D	62611		2841.30	NAVD88	1	Z	
1975-03-27	D	72019	655.70			1	Z	
1975-03-28	D	62610		2839.56	NGVD29	1	Z	
1975-03-28	D	62611		2841.12	NAVD88	1	Z	
1975-03-28	D	72019	655.88			1	Z	
1975-03-29	D	62610		2839.39	NGVD29	1	Z	
1975-03-29	D	62611		2840.95	NAVD88	1	Z	
1975-03-29	D	72019	656.05			1	Z	
1975-03-30	D	62610		2839.34	NGVD29	1	Z	
1975-03-30	D	62611		2840.90	NAVD88	1	Z	
1975-03-30	D	72019	656.10			1	Z	
1975-03-31	D	62610		2839.55	NGVD29	1	Z	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	
1975-03-31	D	62611	2841.11	NAVD88	1	Z	
1975-03-31	D	72019	655.89		1	Z	
1975-04-01	D	62610	2839.48	NGVD29	1	Z	
1975-04-01	D	62611	2841.04	NAVD88	1	Z	
1975-04-01	D	72019	655.96		1	Z	
1975-04-02	D	62610	2839.30	NGVD29	1	Z	
1975-04-02	D	62611	2840.86	NAVD88	1	Z	
1975-04-02	D	72019	656.14		1	Z	
1975-04-03	D	62610	2839.15	NGVD29	1	Z	
1975-04-03	D	62611	2840.71	NAVD88	1	Z	
1975-04-03	D	72019	656.29		1	Z	
1975-04-04	D	62610	2839.24	NGVD29	1	Z	
1975-04-04	D	62611	2840.80	NAVD88	1	Z	
1975-04-04	D	72019	656.20		1	Z	
1975-04-05	D	62610	2839.19	NGVD29	1	Z	
1975-04-05	D	62611	2840.75	NAVD88	1	Z	
1975-04-05	D	72019	656.25		1	Z	
1975-04-06	D	62610	2839.21	NGVD29	1	Z	
1975-04-06	D	62611	2840.77	NAVD88	1	Z	
1975-04-06	D	72019	656.23		1	Z	
1975-04-07	D	62610	2839.37	NGVD29	1	Z	
1975-04-07	D	62611	2840.93	NAVD88	1	Z	
1975-04-07	D	72019	656.07		1	Z	
1975-04-08	D	62610	2839.16	NGVD29	1	Z	
1975-04-08	D	62611	2840.72	NAVD88	1	Z	
1975-04-08	D	72019	656.28		1	Z	
1975-04-09	D	62610	2838.96	NGVD29	1	Z	
1975-04-09	D	62611	2840.52	NAVD88	1	Z	
1975-04-09	D	72019	656.48		1	Z	
1975-04-10	D	62610	2839.02	NGVD29	1	Z	
1975-04-10	D	62611	2840.58	NAVD88	1	Z	
1975-04-10	D	72019	656.42		1	Z	
1975-04-11	D	62610	2838.81	NGVD29	1	Z	
1975-04-11	D	62611	2840.37	NAVD88	1	Z	
1975-04-11	D	72019	656.63		1	Z	
1975-04-12	D	62610	2838.82	NGVD29	1	Z	
1975-04-12	D	62611	2840.38	NAVD88	1	Z	
1975-04-12	D	72019	656.62		1	Z	
1975-04-13	D	62610	2838.89	NGVD29	1	Z	
1975-04-13	D	62611	2840.45	NAVD88	1	Z	
1975-04-13	D	72019	656.55		1	Z	
1975-04-14	D	62610	2838.73	NGVD29	1	Z	
1975-04-14	D	62611	2840.29	NAVD88	1	Z	
1975-04-14	D	72019	656.71		1	Z	
1975-04-15	D	62610	2838.69	NGVD29	1	Z	
1975-04-15	D	62611	2840.25	NAVD88	1	Z	
1975-04-15	D	72019	656.75		1	Z	
1975-04-16	D	62610	2838.74	NGVD29	1	Z	
1975-04-16	D	62611	2840.30	NAVD88	1	Z	
1975-04-16	D	72019	656.70		1	Z	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface		Water level, feet above specific vertical datum		Referenced vertical datum	
1975-04-17		D	62610		2838.86	NGVD29	1	Z	
1975-04-17		D	62611		2840.42	NAVD88	1	Z	
1975-04-17		D	72019	656.58			1	Z	
1975-04-18		D	62610		2838.82	NGVD29	1	Z	
1975-04-18		D	62611		2840.38	NAVD88	1	Z	
1975-04-18		D	72019	656.62			1	Z	
1975-04-19		D	62610		2838.51	NGVD29	1	Z	
1975-04-19		D	62611		2840.07	NAVD88	1	Z	
1975-04-19		D	72019	656.93			1	Z	
1975-04-20		D	62610		2838.48	NGVD29	1	Z	
1975-04-20		D	62611		2840.04	NAVD88	1	Z	
1975-04-20		D	72019	656.96			1	Z	
1975-04-21		D	62610		2838.39	NGVD29	1	Z	
1975-04-21		D	62611		2839.95	NAVD88	1	Z	
1975-04-21		D	72019	657.05			1	Z	
1975-04-22		D	62610		2838.41	NGVD29	1	Z	
1975-04-22		D	62611		2839.97	NAVD88	1	Z	
1975-04-22		D	72019	657.03			1	Z	
1975-04-23		D	62610		2838.42	NGVD29	1	Z	
1975-04-23		D	62611		2839.98	NAVD88	1	Z	
1975-04-23		D	72019	657.02			1	Z	
1975-04-24		D	62610		2838.40	NGVD29	1	Z	
1975-04-24		D	62611		2839.96	NAVD88	1	Z	
1975-04-24		D	72019	657.04			1	Z	
1975-04-25		D	62610		2838.38	NGVD29	1	Z	
1975-04-25		D	62611		2839.94	NAVD88	1	Z	
1975-04-25		D	72019	657.06			1	Z	
1975-04-26		D	62610		2838.42	NGVD29	1	Z	
1975-04-26		D	62611		2839.98	NAVD88	1	Z	
1975-04-26		D	72019	657.02			1	Z	
1975-04-27		D	62610		2838.41	NGVD29	1	Z	
1975-04-27		D	62611		2839.97	NAVD88	1	Z	
1975-04-27		D	72019	657.03			1	Z	
1975-04-28		D	62610		2838.27	NGVD29	1	Z	
1975-04-28		D	62611		2839.83	NAVD88	1	Z	
1975-04-28		D	72019	657.17			1	Z	
1975-04-29		D	62610		2838.32	NGVD29	1	Z	
1975-04-29		D	62611		2839.88	NAVD88	1	Z	
1975-04-29		D	72019	657.12			1	Z	
1975-04-30		D	62610		2838.12	NGVD29	1	Z	
1975-04-30		D	62611		2839.68	NAVD88	1	Z	
1975-04-30		D	72019	657.32			1	Z	
1975-05-01		D	62610		2838.03	NGVD29	1	Z	
1975-05-01		D	62611		2839.59	NAVD88	1	Z	
1975-05-01		D	72019	657.41			1	Z	
1975-05-02		D	62610		2838.03	NGVD29	1	Z	
1975-05-02		D	62611		2839.59	NAVD88	1	Z	
1975-05-02		D	72019	657.41			1	Z	
1975-05-03		D	62610		2837.93	NGVD29	1	Z	
1975-05-03		D	62611		2839.49	NAVD88	1	Z	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface		Water level, feet above specific vertical datum		Referenced vertical datum	
1975-05-03		D	72019	657.51			1	Z	
1975-05-04		D	62610		2837.98	NGVD29	1	Z	
1975-05-04		D	62611		2839.54	NAVD88	1	Z	
1975-05-04		D	72019	657.46			1	Z	
1975-05-05		D	62610		2838.02	NGVD29	1	Z	
1975-05-05		D	62611		2839.58	NAVD88	1	Z	
1975-05-05		D	72019	657.42			1	Z	
1975-05-06		D	62610		2837.91	NGVD29	1	Z	
1975-05-06		D	62611		2839.47	NAVD88	1	Z	
1975-05-06		D	72019	657.53			1	Z	
1975-05-07		D	62610		2837.85	NGVD29	1	Z	
1975-05-07		D	62611		2839.41	NAVD88	1	Z	
1975-05-07		D	72019	657.59			1	Z	
1975-05-08		D	62610		2837.74	NGVD29	1	Z	
1975-05-08		D	62611		2839.30	NAVD88	1	Z	
1975-05-08		D	72019	657.70			1	Z	
1975-05-09		D	62610		2837.63	NGVD29	1	Z	
1975-05-09		D	62611		2839.19	NAVD88	1	Z	
1975-05-09		D	72019	657.81			1	Z	
1975-05-10		D	62610		2837.56	NGVD29	1	Z	
1975-05-10		D	62611		2839.12	NAVD88	1	Z	
1975-05-10		D	72019	657.88			1	Z	
1975-05-11		D	62610		2837.57	NGVD29	1	Z	
1975-05-11		D	62611		2839.13	NAVD88	1	Z	
1975-05-11		D	72019	657.87			1	Z	
1975-05-12		D	62610		2837.62	NGVD29	1	Z	
1975-05-12		D	62611		2839.18	NAVD88	1	Z	
1975-05-12		D	72019	657.82			1	Z	
1975-05-13		D	62610		2837.62	NGVD29	1	Z	
1975-05-13		D	62611		2839.18	NAVD88	1	Z	
1975-05-13		D	72019	657.82			1	Z	
1975-05-14		D	62610		2837.47	NGVD29	1	Z	
1975-05-14		D	62611		2839.03	NAVD88	1	Z	
1975-05-14		D	72019	657.97			1	Z	
1975-05-15		D	62610		2837.41	NGVD29	1	Z	
1975-05-15		D	62611		2838.97	NAVD88	1	Z	
1975-05-15		D	72019	658.03			1	Z	
1975-05-16		D	62610		2837.42	NGVD29	1	Z	
1975-05-16		D	62611		2838.98	NAVD88	1	Z	
1975-05-16		D	72019	658.02			1	Z	
1975-05-17		D	62610		2837.34	NGVD29	1	Z	
1975-05-17		D	62611		2838.90	NAVD88	1	Z	
1975-05-17		D	72019	658.10			1	Z	
1975-05-18		D	62610		2837.26	NGVD29	1	Z	
1975-05-18		D	62611		2838.82	NAVD88	1	Z	
1975-05-18		D	72019	658.18			1	Z	
1975-05-19		D	62610		2837.27	NGVD29	1	Z	
1975-05-19		D	62611		2838.83	NAVD88	1	Z	
1975-05-19		D	72019	658.17			1	Z	
1975-05-20		D	62610		2837.34	NGVD29	1	Z	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	
1975-05-20	D	62611		2838.90	NAVD88	1	Z
1975-05-20	D	72019	658.10			1	Z
1975-05-21	D	62610		2837.22	NGVD29	1	Z
1975-05-21	D	62611		2838.78	NAVD88	1	Z
1975-05-21	D	72019	658.22			1	Z
1975-05-22	D	62610		2837.21	NGVD29	1	Z
1975-05-22	D	62611		2838.77	NAVD88	1	Z
1975-05-22	D	72019	658.23			1	Z
1975-05-23	D	62610		2837.02	NGVD29	1	Z
1975-05-23	D	62611		2838.58	NAVD88	1	Z
1975-05-23	D	72019	658.42			1	Z
1975-05-24	D	62610		2837.00	NGVD29	1	Z
1975-05-24	D	62611		2838.56	NAVD88	1	Z
1975-05-24	D	72019	658.44			1	Z
1975-05-25	D	62610		2836.99	NGVD29	1	Z
1975-05-25	D	62611		2838.55	NAVD88	1	Z
1975-05-25	D	72019	658.45			1	Z
1975-05-26	D	62610		2836.81	NGVD29	1	Z
1975-05-26	D	62611		2838.37	NAVD88	1	Z
1975-05-26	D	72019	658.63			1	Z
1975-05-27	D	62610		2836.84	NGVD29	1	Z
1975-05-27	D	62611		2838.40	NAVD88	1	Z
1975-05-27	D	72019	658.60			1	Z
1975-05-28	D	62610		2836.97	NGVD29	1	Z
1975-05-28	D	62611		2838.53	NAVD88	1	Z
1975-05-28	D	72019	658.47			1	Z
1975-05-29	D	62610		2836.89	NGVD29	1	Z
1975-05-29	D	62611		2838.45	NAVD88	1	Z
1975-05-29	D	72019	658.55			1	Z
1975-05-30	D	62610		2836.68	NGVD29	1	Z
1975-05-30	D	62611		2838.24	NAVD88	1	Z
1975-05-30	D	72019	658.76			1	Z
1975-05-31	D	62610		2836.67	NGVD29	1	Z
1975-05-31	D	62611		2838.23	NAVD88	1	Z
1975-05-31	D	72019	658.77			1	Z
1975-06-01	D	62610		2836.61	NGVD29	1	Z
1975-06-01	D	62611		2838.17	NAVD88	1	Z
1975-06-01	D	72019	658.83			1	Z
1975-06-02	D	62610		2836.51	NGVD29	1	Z
1975-06-02	D	62611		2838.07	NAVD88	1	Z
1975-06-02	D	72019	658.93			1	Z
1975-06-03	D	62610		2836.56	NGVD29	1	Z
1975-06-03	D	62611		2838.12	NAVD88	1	Z
1975-06-03	D	72019	658.88			1	Z
1975-06-04	D	62610		2836.55	NGVD29	1	Z
1975-06-04	D	62611		2838.11	NAVD88	1	Z
1975-06-04	D	72019	658.89			1	Z
1975-06-05	D	62610		2836.44	NGVD29	1	Z
1975-06-05	D	62611		2838.00	NAVD88	1	Z
1975-06-05	D	72019	659.00			1	Z

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	
1975-06-06	D	62610	2836.34	NGVD29	1	Z	
1975-06-06	D	62611	2837.90	NAVD88	1	Z	
1975-06-06	D	72019	659.10		1	Z	
1975-06-07	D	62610	2836.31	NGVD29	1	Z	
1975-06-07	D	62611	2837.87	NAVD88	1	Z	
1975-06-07	D	72019	659.13		1	Z	
1975-06-08	D	62610	2836.28	NGVD29	1	Z	
1975-06-08	D	62611	2837.84	NAVD88	1	Z	
1975-06-08	D	72019	659.16		1	Z	
1975-06-09	D	62610	2836.23	NGVD29	1	Z	
1975-06-09	D	62611	2837.79	NAVD88	1	Z	
1975-06-09	D	72019	659.21		1	Z	
1975-06-10	D	62610	2836.09	NGVD29	1	Z	
1975-06-10	D	62611	2837.65	NAVD88	1	Z	
1975-06-10	D	72019	659.35		1	Z	
1975-06-11	D	62610	2835.94	NGVD29	1	Z	
1975-06-11	D	62611	2837.50	NAVD88	1	Z	
1975-06-11	D	72019	659.50		1	Z	
1975-06-13	D	62610	2835.91	NGVD29	1	Z	
1975-06-13	D	62611	2837.47	NAVD88	1	Z	
1975-06-13	D	72019	659.53		1	Z	
1975-06-14	D	62610	2835.92	NGVD29	1	Z	
1975-06-14	D	62611	2837.48	NAVD88	1	Z	
1975-06-14	D	72019	659.52		1	Z	
1975-06-15	D	62610	2835.83	NGVD29	1	Z	
1975-06-15	D	62611	2837.39	NAVD88	1	Z	
1975-06-15	D	72019	659.61		1	Z	
1975-06-16	D	62610	2835.87	NGVD29	1	Z	
1975-06-16	D	62611	2837.43	NAVD88	1	Z	
1975-06-16	D	72019	659.57		1	Z	
1975-06-17	D	62610	2835.83	NGVD29	1	Z	
1975-06-17	D	62611	2837.39	NAVD88	1	Z	
1975-06-17	D	72019	659.61		1	Z	
1975-06-18	D	62610	2835.77	NGVD29	1	Z	
1975-06-18	D	62611	2837.33	NAVD88	1	Z	
1975-06-18	D	72019	659.67		1	Z	
1975-06-19	D	62610	2835.57	NGVD29	1	Z	
1975-06-19	D	62611	2837.13	NAVD88	1	Z	
1975-06-19	D	72019	659.87		1	Z	
1975-06-20	D	62610	2835.47	NGVD29	1	Z	
1975-06-20	D	62611	2837.03	NAVD88	1	Z	
1975-06-20	D	72019	659.97		1	Z	
1975-06-21	D	62610	2835.43	NGVD29	1	Z	
1975-06-21	D	62611	2836.99	NAVD88	1	Z	
1975-06-21	D	72019	660.01		1	Z	
1975-06-22	D	62610	2835.35	NGVD29	1	Z	
1975-06-22	D	62611	2836.91	NAVD88	1	Z	
1975-06-22	D	72019	660.09		1	Z	
1975-06-23	D	62610	2835.22	NGVD29	1	Z	
1975-06-23	D	62611	2836.78	NAVD88	1	Z	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface		Water level, feet above specific vertical datum		Referenced vertical datum	
1975-06-23		D	72019	660.22			1	Z	
1975-06-24		D	62610		2835.12	NGVD29	1	Z	
1975-06-24		D	62611		2836.68	NAVD88	1	Z	
1975-06-24		D	72019	660.32			1	Z	
1975-06-25		D	62610		2835.16	NGVD29	1	Z	
1975-06-25		D	62611		2836.72	NAVD88	1	Z	
1975-06-25		D	72019	660.28			1	Z	
1975-06-26		D	62610		2835.16	NGVD29	1	Z	
1975-06-26		D	62611		2836.72	NAVD88	1	Z	
1975-06-26		D	72019	660.28			1	Z	
1975-06-27		D	62610		2835.08	NGVD29	1	Z	
1975-06-27		D	62611		2836.64	NAVD88	1	Z	
1975-06-27		D	72019	660.36			1	Z	
1975-06-28		D	62610		2835.02	NGVD29	1	Z	
1975-06-28		D	62611		2836.58	NAVD88	1	Z	
1975-06-28		D	72019	660.42			1	Z	
1975-06-29		D	62610		2834.91	NGVD29	1	Z	
1975-06-29		D	62611		2836.47	NAVD88	1	Z	
1975-06-29		D	72019	660.53			1	Z	
1975-06-30		D	62610		2834.79	NGVD29	1	Z	
1975-06-30		D	62611		2836.35	NAVD88	1	Z	
1975-06-30		D	72019	660.65			1	Z	
1975-07-01		D	62610		2834.71	NGVD29	1	Z	
1975-07-01		D	62611		2836.27	NAVD88	1	Z	
1975-07-01		D	72019	660.73			1	Z	
1975-07-02		D	62610		2834.62	NGVD29	1	Z	
1975-07-02		D	62611		2836.18	NAVD88	1	Z	
1975-07-02		D	72019	660.82			1	Z	
1975-07-03		D	62610		2834.56	NGVD29	1	Z	
1975-07-03		D	62611		2836.12	NAVD88	1	Z	
1975-07-03		D	72019	660.88			1	Z	
1975-07-04		D	62610		2834.49	NGVD29	1	Z	
1975-07-04		D	62611		2836.05	NAVD88	1	Z	
1975-07-04		D	72019	660.95			1	Z	
1975-07-05		D	62610		2834.50	NGVD29	1	Z	
1975-07-05		D	62611		2836.06	NAVD88	1	Z	
1975-07-05		D	72019	660.94			1	Z	
1975-07-06		D	62610		2834.51	NGVD29	1	Z	
1975-07-06		D	62611		2836.07	NAVD88	1	Z	
1975-07-06		D	72019	660.93			1	Z	
1975-07-07		D	62610		2834.42	NGVD29	1	Z	
1975-07-07		D	62611		2835.98	NAVD88	1	Z	
1975-07-07		D	72019	661.02			1	Z	
1975-07-08		D	62610		2834.31	NGVD29	1	Z	
1975-07-08		D	62611		2835.87	NAVD88	1	Z	
1975-07-08		D	72019	661.13			1	Z	
1975-07-09		D	62610		2834.29	NGVD29	1	Z	
1975-07-09		D	62611		2835.85	NAVD88	1	Z	
1975-07-09		D	72019	661.15			1	Z	
1975-07-10		D	62610		2834.28	NGVD29	1	Z	

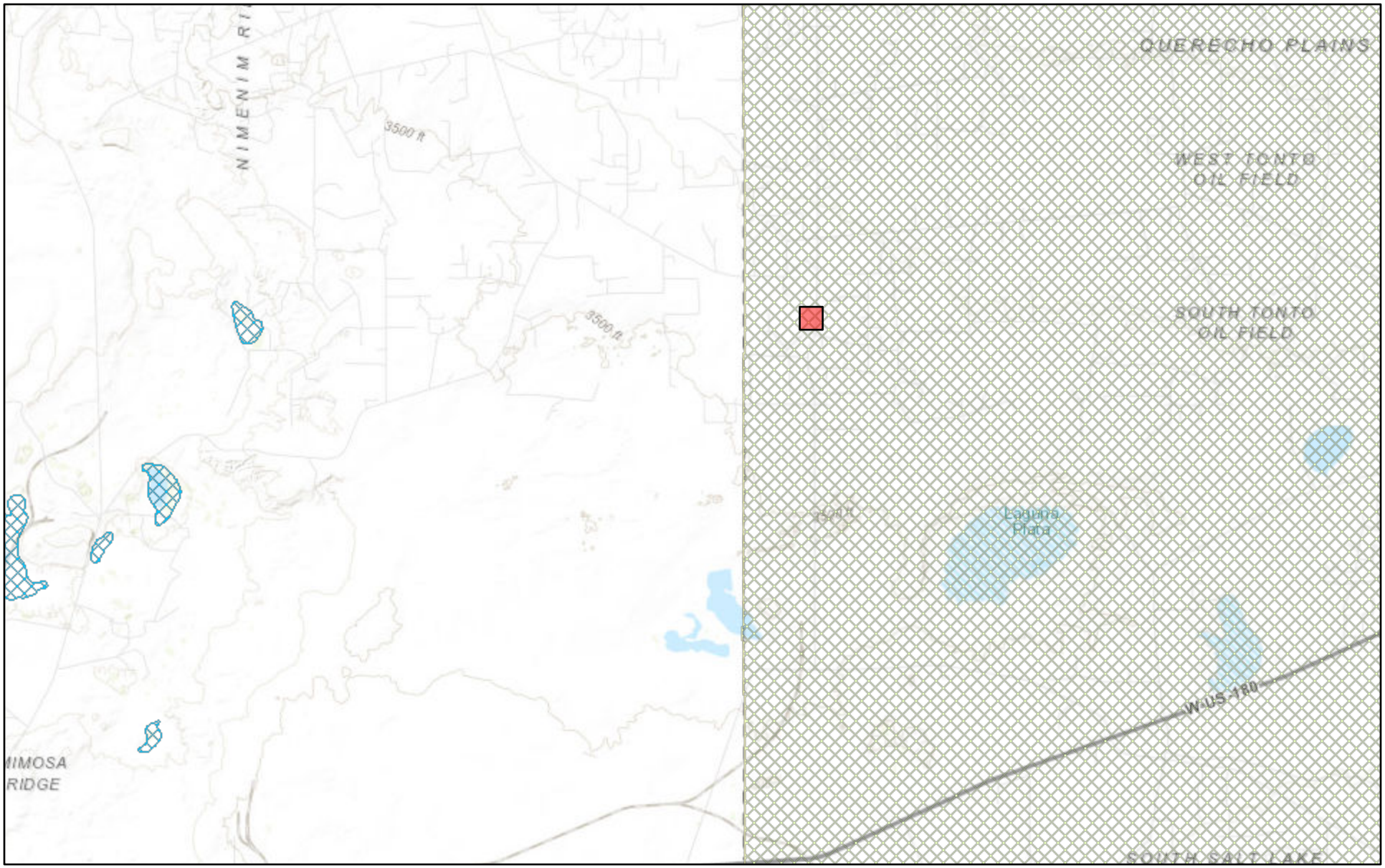
Date	Time	? Water-level date-time accuracy	? Parameter code		Water level, feet below land surface	Water level, feet above specific vertical datum		Referenced vertical datum	
1975-07-10		D	62611		2835.84	NAVD88	1	Z	
1975-07-10		D	72019	661.16			1	Z	
1975-07-11		D	62610		2834.23	NGVD29	1	Z	
1975-07-11		D	62611		2835.79	NAVD88	1	Z	
1975-07-11		D	72019	661.21			1	Z	
1975-07-12		D	62610		2834.22	NGVD29	1	Z	
1975-07-12		D	62611		2835.78	NAVD88	1	Z	
1975-07-12		D	72019	661.22			1	Z	
1975-07-13		D	62610		2834.15	NGVD29	1	Z	
1975-07-13		D	62611		2835.71	NAVD88	1	Z	
1975-07-13		D	72019	661.29			1	Z	
1975-07-14		D	62610		2834.10	NGVD29	1	Z	
1975-07-14		D	62611		2835.66	NAVD88	1	Z	
1975-07-14		D	72019	661.34			1	Z	
1975-07-15		D	62610		2833.99	NGVD29	1	Z	
1975-07-15		D	62611		2835.55	NAVD88	1	Z	
1975-07-15		D	72019	661.45			1	Z	
1975-07-16		D	62610		2833.93	NGVD29	1	Z	
1975-07-16		D	62611		2835.49	NAVD88	1	Z	
1975-07-16		D	72019	661.51			1	Z	
1975-07-17		D	62610		2833.88	NGVD29	1	Z	
1975-07-17		D	62611		2835.44	NAVD88	1	Z	
1975-07-17		D	72019	661.56			1	Z	

Explanation

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

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

New Mexico NFHL Data



October 27, 2022

1:144,448

0 1 2 4 mi

0 1.5 3 6 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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APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-20653-1
Laboratory Sample Delivery Group: Lea County, New Mexico
Client Project/Site: Lusk Deep Unit A 23H

For:
Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Attn: Conner Moehring

JKramer

Authorized for release by:
10/26/2022 9:09:11 AM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Laboratory Job ID: 880-20653-1
SDG: Lea County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Job ID: 880-20653-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-20653-1

Receipt
The samples were received on 10/24/2022 9:41 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-1') (880-20653-1), S-1 (1.5') (880-20653-2), S-1 (2') (880-20653-3), S-1 (2.5') (880-20653-4), S-2 (0-1') (880-20653-5), S-2 (1.5') (880-20653-6), S-2 (2') (880-20653-7), S-2 (2.5') (880-20653-8), S-2 (3') (880-20653-9), S-2 (3.5') (880-20653-10), S-2 (4') (880-20653-11), S-3 (0-0.25') (880-20653-12), S-3 (0.5') (880-20653-13), S-3 (1') (880-20653-14), S-3 (1.5') (880-20653-15), H-1 (0-0.5') (880-20653-16), H-2 (0-0.5') (880-20653-17), H-3 (0-0.5') (880-20653-18) and H-4 (0-0.5') (880-20653-19).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-20653-A-1-A MS) and (880-20653-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 (0-1') (880-20653-1) and S-1 (1.5') (880-20653-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-2 (0-1') (880-20653-5), S-2 (1.5') (880-20653-6), S-2 (2') (880-20653-7), S-2 (2.5') (880-20653-8), S-2 (3') (880-20653-9) and S-2 (3.5') (880-20653-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-37637 and analytical batch 880-37613 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-2 (2') (880-20653-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-37517 and analytical batch 880-37728 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-2 (4') (880-20653-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-37642 and analytical batch 880-37607 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

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 A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-20653-1
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/24/22 11:00	10/24/22 13:13	1
Toluene	**0.121**	**F1**	0.00201		mg/Kg		10/24/22 11:00	10/24/22 13:13	1
Ethylbenzene	**0.307**	**F1**	0.00201		mg/Kg		10/24/22 11:00	10/24/22 13:13	1
m-Xylene & p-Xylene	**0.453**	**F1**	0.00402		mg/Kg		10/24/22 11:00	10/24/22 13:13	1
o-Xylene	**0.271**	**F2 F1**	0.00201		mg/Kg		10/24/22 11:00	10/24/22 13:13	1
Xylenes, Total	**0.724**	**F1**	0.00402		mg/Kg		10/24/22 11:00	10/24/22 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*291*	*S1+*	*70 - 130*	*10/24/22 11:00*	*10/24/22 13:13*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*10/24/22 11:00*	*10/24/22 13:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.15**		0.00402		mg/Kg			10/25/22 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1080**		49.8		mg/Kg			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/24/22 11:14	10/24/22 22:37	1
Diesel Range Organics (Over C10-C28)	**974**		49.8		mg/Kg		10/24/22 11:14	10/24/22 22:37	1
Oil Range Organics (Over C28-C36)	**106**		49.8		mg/Kg		10/24/22 11:14	10/24/22 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*10/24/22 11:14*	*10/24/22 22:37*	*1*
o-Terphenyl	*106*		*70 - 130*	*10/24/22 11:14*	*10/24/22 22:37*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.7**		4.98		mg/Kg			10/24/22 19:59	1

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-20653-2
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/24/22 11:00	10/24/22 13:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/24/22 11:00	10/24/22 13:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/24/22 11:00	10/24/22 13:39	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/24/22 11:00	10/24/22 13:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/24/22 11:00	10/24/22 13:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/24/22 11:00	10/24/22 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*144*	*S1+*	*70 - 130*	*10/24/22 11:00*	*10/24/22 13:39*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*	*10/24/22 11:00*	*10/24/22 13:39*	*1*

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Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-20653-2
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/25/22 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/24/22 11:14	10/24/22 21:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/24/22 11:14	10/24/22 21:32	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/24/22 11:14	10/24/22 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*10/24/22 11:14*	*10/24/22 21:32*	*1*
o-Terphenyl	*121*		*70 - 130*	*10/24/22 11:14*	*10/24/22 21:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.1**		5.00		mg/Kg			10/24/22 20:14	1

Client Sample ID: S-1 (2')

Lab Sample ID: 880-20653-3
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/24/22 11:00	10/24/22 14:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/24/22 11:00	10/24/22 14:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/24/22 11:00	10/24/22 14:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/24/22 11:00	10/24/22 14:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/24/22 11:00	10/24/22 14:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/24/22 11:00	10/24/22 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*10/24/22 11:00*	*10/24/22 14:05*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*10/24/22 11:00*	*10/24/22 14:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/25/22 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/24/22 11:14	10/24/22 22:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/24/22 11:14	10/24/22 22:59	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (2')

Lab Sample ID: 880-20653-3
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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)	<49.8	U	49.8		mg/Kg		10/24/22 11:14	10/24/22 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*10/24/22 11:14*	*10/24/22 22:59*	*1*
o-Terphenyl	*109*		*70 - 130*	*10/24/22 11:14*	*10/24/22 22:59*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.0**		4.99		mg/Kg			10/24/22 20:18	1

Client Sample ID: S-1 (2.5')

Lab Sample ID: 880-20653-4
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00398**		0.00198		mg/Kg		10/24/22 11:00	10/24/22 14:31	1
Toluene	**0.0233**		0.00198		mg/Kg		10/24/22 11:00	10/24/22 14:31	1
Ethylbenzene	**0.00738**		0.00198		mg/Kg		10/24/22 11:00	10/24/22 14:31	1
m-Xylene & p-Xylene	**0.00796**		0.00397		mg/Kg		10/24/22 11:00	10/24/22 14:31	1
o-Xylene	**0.00271**		0.00198		mg/Kg		10/24/22 11:00	10/24/22 14:31	1
Xylenes, Total	**0.0107**		0.00397		mg/Kg		10/24/22 11:00	10/24/22 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*10/24/22 11:00*	*10/24/22 14:31*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*10/24/22 11:00*	*10/24/22 14:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0453**		0.00397		mg/Kg			10/25/22 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/24/22 11:14	10/24/22 23:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/24/22 11:14	10/24/22 23:21	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/24/22 11:14	10/24/22 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*10/24/22 11:14*	*10/24/22 23:21*	*1*
o-Terphenyl	*107*		*70 - 130*	*10/24/22 11:14*	*10/24/22 23:21*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.8**		5.00		mg/Kg			10/24/22 20:23	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

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

Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Lab Sample ID: 880-20653-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	29.1		0.996		mg/Kg		10/25/22 10:30	10/25/22 14:58	500
Toluene	658		9.96		mg/Kg		10/25/22 10:30	10/25/22 19:51	5000
Ethylbenzene	105		0.996		mg/Kg		10/25/22 10:30	10/25/22 14:58	500
m-Xylene & p-Xylene	104		1.99		mg/Kg		10/25/22 10:30	10/25/22 14:58	500
o-Xylene	46.5		0.996		mg/Kg		10/25/22 10:30	10/25/22 14:58	500
Xylenes, Total	151		1.99		mg/Kg		10/25/22 10:30	10/25/22 14:58	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*174*	*S1+*	*70 - 130*	*10/24/22 11:00*	*10/24/22 15:49*	*50*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*10/24/22 11:00*	*10/24/22 15:49*	*50*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	943		1.99		mg/Kg			10/25/22 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	7920		250		mg/Kg			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3000		250		mg/Kg		10/24/22 11:14	10/24/22 23:43	5
Diesel Range Organics (Over C10-C28)	4450		250		mg/Kg		10/24/22 11:14	10/24/22 23:43	5
Oil Range Organics (Over C28-C36)	473		250		mg/Kg		10/24/22 11:14	10/24/22 23:43	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*10/24/22 11:14*	*10/24/22 23:43*	*5*
o-Terphenyl	*103*		*70 - 130*	*10/24/22 11:14*	*10/24/22 23:43*	*5*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.4		5.02		mg/Kg			10/24/22 20:28	1

Client Sample ID: S-2 (1.5')

Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Lab Sample ID: 880-20653-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.295		0.0402		mg/Kg		10/24/22 11:00	10/24/22 16:15	20
Toluene	6.42		0.0402		mg/Kg		10/24/22 11:00	10/24/22 16:15	20
Ethylbenzene	4.87		0.0402		mg/Kg		10/24/22 11:00	10/24/22 16:15	20
m-Xylene & p-Xylene	5.00		0.0803		mg/Kg		10/24/22 11:00	10/24/22 16:15	20
o-Xylene	4.11		0.0402		mg/Kg		10/24/22 11:00	10/24/22 16:15	20
Xylenes, Total	9.11		0.0803		mg/Kg		10/24/22 11:00	10/24/22 16:15	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*196*	*S1+*	*70 - 130*	*10/24/22 11:00*	*10/24/22 16:15*	*20*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*10/24/22 11:00*	*10/24/22 16:15*	*20*

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-20653-6

Date Collected: 10/20/22 00:00
Matrix: Solid
Date Received: 10/24/22 09:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	20.7		0.0803		mg/Kg			10/25/22 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	785		49.9		mg/Kg			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	197		49.9		mg/Kg		10/24/22 11:14	10/25/22 00:04	1
Diesel Range Organics (Over C10-C28)	528		49.9		mg/Kg		10/24/22 11:14	10/25/22 00:04	1
Oil Range Organics (Over C28-C36)	60.1		49.9		mg/Kg		10/24/22 11:14	10/25/22 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*10/24/22 11:14*	*10/25/22 00:04*	*1*
o-Terphenyl	*108*		*70 - 130*	*10/24/22 11:14*	*10/25/22 00:04*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.3		5.00		mg/Kg			10/24/22 20:43	1

Client Sample ID: S-2 (2')

Lab Sample ID: 880-20653-7

Date Collected: 10/20/22 00:00
Matrix: Solid
Date Received: 10/24/22 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.681		0.0404		mg/Kg		10/24/22 11:00	10/24/22 16:40	20
Toluene	17.3		0.404		mg/Kg		10/25/22 10:30	10/25/22 14:37	200
Ethylbenzene	23.8		0.404		mg/Kg		10/25/22 10:30	10/25/22 14:37	200
m-Xylene & p-Xylene	13.8		0.0808		mg/Kg		10/24/22 11:00	10/24/22 16:40	20
o-Xylene	5.78		0.0404		mg/Kg		10/24/22 11:00	10/24/22 16:40	20
Xylenes, Total	19.6		0.0808		mg/Kg		10/24/22 11:00	10/24/22 16:40	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*174*	*S1+*	*70 - 130*	*10/24/22 11:00*	*10/24/22 16:40*	*20*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*10/24/22 11:00*	*10/24/22 16:40*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	61.4		0.404		mg/Kg			10/25/22 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2380		50.0		mg/Kg			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	578		50.0		mg/Kg		10/24/22 11:14	10/25/22 00:26	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (2')

Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Lab Sample ID: 880-20653-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	1620		50.0		mg/Kg		10/24/22 11:14	10/25/22 00:26	1
Oll Range Organics (Over C28-C36)	179		50.0		mg/Kg		10/24/22 11:14	10/25/22 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*10/24/22 11:14*	*10/25/22 00:26*	*1*
o-Terphenyl	*118*		*70 - 130*	*10/24/22 11:14*	*10/25/22 00:26*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.4		4.96		mg/Kg			10/24/22 20:47	1

Client Sample ID: S-2 (2.5')

Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Lab Sample ID: 880-20653-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0401	U	0.0401		mg/Kg		10/24/22 11:00	10/24/22 17:07	20
Toluene	1.44		0.0401		mg/Kg		10/24/22 11:00	10/24/22 17:07	20
Ethylbenzene	1.49		0.0401		mg/Kg		10/24/22 11:00	10/24/22 17:07	20
m-Xylene & p-Xylene	1.63		0.0802		mg/Kg		10/24/22 11:00	10/24/22 17:07	20
o-Xylene	1.48		0.0401		mg/Kg		10/24/22 11:00	10/24/22 17:07	20
Xylenes, Total	3.11		0.0802		mg/Kg		10/24/22 11:00	10/24/22 17:07	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*10/24/22 11:00*	*10/24/22 17:07*	*20*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*10/24/22 11:00*	*10/24/22 17:07*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	6.04		0.0802		mg/Kg			10/25/22 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	467		50.0		mg/Kg			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	77.7		50.0		mg/Kg		10/24/22 11:14	10/25/22 00:47	1
Diesel Range Organics (Over C10-C28)	389		50.0		mg/Kg		10/24/22 11:14	10/25/22 00:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*10/24/22 11:14*	*10/25/22 00:47*	*1*
o-Terphenyl	*103*		*70 - 130*	*10/24/22 11:14*	*10/25/22 00:47*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.2		5.04		mg/Kg			10/24/22 20:52	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (3')

Lab Sample ID: 880-20653-9
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/24/22 11:00	10/24/22 14:57	1
Toluene	**0.0120**		0.00200		mg/Kg		10/24/22 11:00	10/24/22 14:57	1
Ethylbenzene	**0.0220**		0.00200		mg/Kg		10/24/22 11:00	10/24/22 14:57	1
m-Xylene & p-Xylene	**0.0301**		0.00400		mg/Kg		10/24/22 11:00	10/24/22 14:57	1
o-Xylene	**0.0130**		0.00200		mg/Kg		10/24/22 11:00	10/24/22 14:57	1
Xylenes, Total	**0.0431**		0.00400		mg/Kg		10/24/22 11:00	10/24/22 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*10/24/22 11:00*	*10/24/22 14:57*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*10/24/22 11:00*	*10/24/22 14:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0771**		0.00400		mg/Kg			10/25/22 12:36	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			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 01:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 01:09	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*10/24/22 11:14*	*10/25/22 01:09*	*1*
o-Terphenyl	*117*		*70 - 130*	*10/24/22 11:14*	*10/25/22 01:09*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.3**		4.96		mg/Kg			10/24/22 20:57	1

Client Sample ID: S-2 (3.5')

Lab Sample ID: 880-20653-10
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/24/22 11:00	10/24/22 15:23	1
Toluene	**0.0636**		0.00199		mg/Kg		10/24/22 11:00	10/24/22 15:23	1
Ethylbenzene	**0.133**		0.00199		mg/Kg		10/24/22 11:00	10/24/22 15:23	1
m-Xylene & p-Xylene	**0.163**		0.00398		mg/Kg		10/24/22 11:00	10/24/22 15:23	1
o-Xylene	**0.0956**		0.00199		mg/Kg		10/24/22 11:00	10/24/22 15:23	1
Xylenes, Total	**0.259**		0.00398		mg/Kg		10/24/22 11:00	10/24/22 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*154*	*S1+*	*70 - 130*	*10/24/22 11:00*	*10/24/22 15:23*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*10/24/22 11:00*	*10/24/22 15:23*	*1*

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Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (3.5')

Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Lab Sample ID: 880-20653-10
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.455		0.00398		mg/Kg			10/25/22 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	151		50.0		mg/Kg			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 01:30	1
Diesel Range Organics (Over C10-C28)	151		50.0		mg/Kg		10/24/22 11:14	10/25/22 01:30	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*10/24/22 11:14*	*10/25/22 01:30*	*1*
o-Terphenyl	*122*		*70 - 130*	*10/24/22 11:14*	*10/25/22 01:30*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.8		4.97		mg/Kg			10/24/22 21:02	1

Client Sample ID: S-2 (4')

Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Lab Sample ID: 880-20653-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0201		0.00202		mg/Kg		10/24/22 11:00	10/24/22 18:50	1
Toluene	0.0299		0.00202		mg/Kg		10/24/22 11:00	10/24/22 18:50	1
Ethylbenzene	0.0113		0.00202		mg/Kg		10/24/22 11:00	10/24/22 18:50	1
m-Xylene & p-Xylene	0.0115		0.00403		mg/Kg		10/24/22 11:00	10/24/22 18:50	1
o-Xylene	0.00548		0.00202		mg/Kg		10/24/22 11:00	10/24/22 18:50	1
Xylenes, Total	0.0170		0.00403		mg/Kg		10/24/22 11:00	10/24/22 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*10/24/22 11:00*	*10/24/22 18:50*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*10/24/22 11:00*	*10/24/22 18:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0783		0.00403		mg/Kg			10/25/22 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	114		49.9		mg/Kg			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/24/22 11:14	10/25/22 02:13	1
Diesel Range Organics (Over C10-C28)	114		49.9		mg/Kg		10/24/22 11:14	10/25/22 02:13	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (4')

Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Lab Sample ID: 880-20653-11
Matrix: Solid

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)	<49.9	U	49.9		mg/Kg		10/24/22 11:14	10/25/22 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*10/24/22 11:14*	*10/25/22 02:13*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*10/24/22 11:14*	*10/25/22 02:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.4**		5.00		mg/Kg			10/24/22 21:07	1

Client Sample ID: S-3 (0-0.25')

Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Lab Sample ID: 880-20653-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/24/22 11:00	10/24/22 19:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/24/22 11:00	10/24/22 19:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/24/22 11:00	10/24/22 19:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/24/22 11:00	10/24/22 19:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/24/22 11:00	10/24/22 19:16	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/24/22 11:00	10/24/22 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*10/24/22 11:00*	*10/24/22 19:16*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/24/22 11:00*	*10/24/22 19:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/25/22 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**92.6**		49.8		mg/Kg			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/24/22 11:14	10/25/22 02:34	1
Diesel Range Organics (Over C10-C28)	**92.6**		49.8		mg/Kg		10/24/22 11:14	10/25/22 02:34	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/24/22 11:14	10/25/22 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*10/24/22 11:14*	*10/25/22 02:34*	*1*
o-Terphenyl	*118*		*70 - 130*	*10/24/22 11:14*	*10/25/22 02:34*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.0**		4.98		mg/Kg			10/24/22 21:21	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (0.5')

Lab Sample ID: 880-20653-13
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/24/22 11:00	10/24/22 19:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/24/22 11:00	10/24/22 19:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/24/22 11:00	10/24/22 19:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/24/22 11:00	10/24/22 19:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/24/22 11:00	10/24/22 19:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/24/22 11:00	10/24/22 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*10/24/22 11:00*	*10/24/22 19:42*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*10/24/22 11:00*	*10/24/22 19:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/25/22 12:36	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			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 02:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 02:56	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 02:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*10/24/22 11:14*	*10/25/22 02:56*	*1*
o-Terphenyl	*105*		*70 - 130*	*10/24/22 11:14*	*10/25/22 02:56*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.2**		4.96		mg/Kg			10/24/22 21:26	1

Client Sample ID: S-3 (1')

Lab Sample ID: 880-20653-14
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/24/22 11:00	10/24/22 20:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/24/22 11:00	10/24/22 20:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/24/22 11:00	10/24/22 20:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/24/22 11:00	10/24/22 20:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/24/22 11:00	10/24/22 20:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/24/22 11:00	10/24/22 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*10/24/22 11:00*	*10/24/22 20:08*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*10/24/22 11:00*	*10/24/22 20:08*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (1')

Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Lab Sample ID: 880-20653-14
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			10/25/22 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/24/22 11:14	10/25/22 03:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/24/22 11:14	10/25/22 03:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/24/22 11:14	10/25/22 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*10/24/22 11:14*	*10/25/22 03:17*	*1*
o-Terphenyl	*116*		*70 - 130*	*10/24/22 11:14*	*10/25/22 03:17*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.2**		5.00		mg/Kg			10/24/22 21:41	1

Client Sample ID: S-3 (1.5')

Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Lab Sample ID: 880-20653-15
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		10/24/22 11:00	10/24/22 20:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/24/22 11:00	10/24/22 20:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/24/22 11:00	10/24/22 20:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/24/22 11:00	10/24/22 20:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/24/22 11:00	10/24/22 20:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/24/22 11:00	10/24/22 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*10/24/22 11:00*	*10/24/22 20:35*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*10/24/22 11:00*	*10/24/22 20:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/25/22 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/24/22 11:14	10/25/22 03:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/24/22 11:14	10/25/22 03:39	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-20653-15
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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)	<49.9	U	49.9		mg/Kg		10/24/22 11:14	10/25/22 03:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*10/24/22 11:14*	*10/25/22 03:39*	*1*
o-Terphenyl	*124*		*70 - 130*	*10/24/22 11:14*	*10/25/22 03:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.8**		4.99		mg/Kg			10/24/22 21:46	1

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

Lab Sample ID: 880-20653-16
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/24/22 11:00	10/24/22 21:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/24/22 11:00	10/24/22 21:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/24/22 11:00	10/24/22 21:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/24/22 11:00	10/24/22 21:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/24/22 11:00	10/24/22 21:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/24/22 11:00	10/24/22 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*10/24/22 11:00*	*10/24/22 21:01*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*10/24/22 11:00*	*10/24/22 21:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/25/22 12:36	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			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 04:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 04:00	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*10/24/22 11:14*	*10/25/22 04:00*	*1*
o-Terphenyl	*127*		*70 - 130*	*10/24/22 11:14*	*10/25/22 04:00*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.8**		4.95		mg/Kg			10/24/22 21:51	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-20653-17
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/24/22 11:00	10/24/22 21:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/24/22 11:00	10/24/22 21:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/24/22 11:00	10/24/22 21:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/24/22 11:00	10/24/22 21:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/24/22 11:00	10/24/22 21:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/24/22 11:00	10/24/22 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*10/24/22 11:00*	*10/24/22 21:27*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*10/24/22 11:00*	*10/24/22 21:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/25/22 12:36	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			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 04:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 04:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*10/24/22 11:14*	*10/25/22 04:22*	*1*
o-Terphenyl	*120*		*70 - 130*	*10/24/22 11:14*	*10/25/22 04:22*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.8**		5.05		mg/Kg			10/24/22 21:56	1

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

Lab Sample ID: 880-20653-18
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/24/22 11:00	10/24/22 21:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/24/22 11:00	10/24/22 21:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/24/22 11:00	10/24/22 21:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/24/22 11:00	10/24/22 21:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/24/22 11:00	10/24/22 21:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/24/22 11:00	10/24/22 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*10/24/22 11:00*	*10/24/22 21:53*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*10/24/22 11:00*	*10/24/22 21:53*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-20653-18
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/25/22 12:36	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			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 04:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 04:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*10/24/22 11:14*	*10/25/22 04:43*	*1*
o-Terphenyl	*107*		*70 - 130*	*10/24/22 11:14*	*10/25/22 04:43*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.2**		5.01		mg/Kg			10/24/22 22:00	1

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

Lab Sample ID: 880-20653-19
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/24/22 11:00	10/24/22 22:19	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/24/22 11:00	10/24/22 22:19	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/24/22 11:00	10/24/22 22:19	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		10/24/22 11:00	10/24/22 22:19	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/24/22 11:00	10/24/22 22:19	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		10/24/22 11:00	10/24/22 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*10/24/22 11:00*	*10/24/22 22:19*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*10/24/22 11:00*	*10/24/22 22:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			10/25/22 12:36	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			10/25/22 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 05:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 05:05	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Client Sample ID: H-4 (0-0.5')
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Lab Sample ID: 880-20653-19
Matrix: Solid

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)	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/25/22 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*10/24/22 11:14*	*10/25/22 05:05*	*1*
o-Terphenyl	*125*		*70 - 130*	*10/24/22 11:14*	*10/25/22 05:05*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.5**		4.97		mg/Kg			10/24/22 22:05	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-20653-1	S-1 (0-1')	291 S1+	91
880-20653-1 MS	S-1 (0-1')	263 S1+	106
880-20653-1 MSD	S-1 (0-1')	265 S1+	133 S1+
880-20653-2	S-1 (1.5')	144 S1+	125
880-20653-3	S-1 (2')	115	101
880-20653-4	S-1 (2.5')	110	99
880-20653-5	S-2 (0-1')	174 S1+	84
880-20653-6	S-2 (1.5')	196 S1+	90
880-20653-7	S-2 (2')	174 S1+	96
880-20653-8	S-2 (2.5')	143 S1+	96
880-20653-9	S-2 (3')	140 S1+	103
880-20653-10	S-2 (3.5')	154 S1+	93
880-20653-11	S-2 (4')	114	105
880-20653-12	S-3 (0-0.25')	111	100
880-20653-13	S-3 (0.5')	129	95
880-20653-14	S-3 (1')	122	95
880-20653-15	S-3 (1.5')	124	105
880-20653-16	H-1 (0-0.5')	120	101
880-20653-17	H-2 (0-0.5')	120	96
880-20653-18	H-3 (0-0.5')	121	95
880-20653-19	H-4 (0-0.5')	116	98
890-3234-A-1-C MS	Matrix Spike	90	103
890-3234-A-1-D MSD	Matrix Spike Duplicate	99	98
LCS 880-37517/1-A	Lab Control Sample	99	98
LCS 880-37637/1-A	Lab Control Sample	117	100
LCSD 880-37517/2-A	Lab Control Sample Dup	105	93
LCSD 880-37637/2-A	Lab Control Sample Dup	112	101
MB 880-37517/5-A	Method Blank	109	105
MB 880-37637/5-A	Method Blank	70	96

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)
880-20653-1	S-1 (0-1')	106	106
880-20653-2	S-1 (1.5')	113	121
880-20653-2 MS	S-1 (1.5')	91	86
880-20653-2 MSD	S-1 (1.5')	90	86
880-20653-3	S-1 (2')	101	109
880-20653-4	S-1 (2.5')	101	107
880-20653-5	S-2 (0-1')	116	103
880-20653-6	S-2 (1.5')	110	108
880-20653-7	S-2 (2')	118	118
880-20653-8	S-2 (2.5')	102	103

Surrogate Summary

Client: Carmona Resources
Job ID: 880-20653-1
Project/Site: Lusk Deep Unit A 23H
SDG: Lea County, New Mexico

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-20653-9	S-2 (3')	111	117								
880-20653-10	S-2 (3.5')	118	122								
880-20653-11	S-2 (4')	125	139 S1+								
880-20653-12	S-3 (0-0.25')	112	118								
880-20653-13	S-3 (0.5')	100	105								
880-20653-14	S-3 (1')	107	116								
880-20653-15	S-3 (1.5')	113	124								
880-20653-16	H-1 (0-0.5')	120	127								
880-20653-17	H-2 (0-0.5')	114	120								
880-20653-18	H-3 (0-0.5')	100	107								
880-20653-19	H-4 (0-0.5')	115	125								
LCS 880-37642/2-A	Lab Control Sample	94	101								
LCSD 880-37642/3-A	Lab Control Sample Dup	96	102								
MB 880-37642/1-A	Method Blank	112	130								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-37517/5-A
Matrix: Solid
Analysis Batch: 37728

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37517

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/21/22 14:22	10/25/22 11:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/21/22 14:22	10/25/22 11:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/21/22 14:22	10/25/22 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/21/22 14:22	10/25/22 11:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/21/22 14:22	10/25/22 11:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/21/22 14:22	10/25/22 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*10/21/22 14:22*	*10/25/22 11:26*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*10/21/22 14:22*	*10/25/22 11:26*	*1*

Lab Sample ID: LCS 880-37517/1-A
Matrix: Solid
Analysis Batch: 37728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37517

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1017		mg/Kg		102	70 - 130
Toluene	0.100	0.1085		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1005		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2078		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1114		mg/Kg		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-37517/2-A
Matrix: Solid
Analysis Batch: 37728

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 37517

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09388		mg/Kg		94	70 - 130	8	35
Toluene	0.100	0.1073		mg/Kg		107	70 - 130	1	35
Ethylbenzene	0.100	0.1027		mg/Kg		103	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2150		mg/Kg		107	70 - 130	3	35
o-Xylene	0.100	0.1157		mg/Kg		116	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 890-3234-A-1-C MS
Matrix: Solid
Analysis Batch: 37728

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 37517

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1 F2	0.0998	0.02483	F1	mg/Kg		25	70 - 130
Toluene	<0.00201	U F1	0.0998	0.02053	F1	mg/Kg		21	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 890-3234-A-1-C MS | **Client Sample ID: Matrix Spike**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 37728 | **Prep Batch: 37517**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1	0.0998	0.01717	F1	mg/Kg		17	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.03517	F1	mg/Kg		18	70 - 130
o-Xylene	<0.00201	U F1	0.0998	0.02055	F1	mg/Kg		21	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-3234-A-1-D MSD | **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 37728 | **Prep Batch: 37517**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1 F2	0.0990	0.03579	F1 F2	mg/Kg		36	70 - 130	36	35
Toluene	<0.00201	U F1	0.0990	0.02501	F1	mg/Kg		25	70 - 130	20	35
Ethylbenzene	<0.00201	U F1	0.0990	0.01880	F1	mg/Kg		19	70 - 130	9	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.03839	F1	mg/Kg		19	70 - 130	9	35
o-Xylene	<0.00201	U F1	0.0990	0.02248	F1	mg/Kg		23	70 - 130	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 880-37637/5-A | **Client Sample ID: Method Blank**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 37613 | **Prep Batch: 37637**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/24/22 11:00	10/24/22 12:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/24/22 11:00	10/24/22 12:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/24/22 11:00	10/24/22 12:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/24/22 11:00	10/24/22 12:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/24/22 11:00	10/24/22 12:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/24/22 11:00	10/24/22 12:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*10/24/22 11:00*	*10/24/22 12:47*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*10/24/22 11:00*	*10/24/22 12:47*	*1*

Lab Sample ID: LCS 880-37637/1-A | **Client Sample ID: Lab Control Sample**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 37613 | **Prep Batch: 37637**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09636		mg/Kg		96	70 - 130
Toluene	0.100	0.09773		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1166		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	0.200	0.2216		mg/Kg		111	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-37637/1-A
Matrix: Solid
Analysis Batch: 37613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37637

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1108		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-37637/2-A
Matrix: Solid
Analysis Batch: 37613

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 37637

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08008		mg/Kg		80	70 - 130	18	35
Toluene			0.100	0.08542		mg/Kg		85	70 - 130	13	35
Ethylbenzene			0.100	0.09298		mg/Kg		93	70 - 130	23	35
m-Xylene & p-Xylene			0.200	0.1775		mg/Kg		89	70 - 130	22	35
o-Xylene			0.100	0.09230		mg/Kg		92	70 - 130	18	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-20653-1 MS
Matrix: Solid
Analysis Batch: 37613

Client Sample ID: S-1 (0-1')
Prep Type: Total/NA
Prep Batch: 37637

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.101	0.1110		mg/Kg		109	70 - 130		
Toluene	0.121	F1	0.101	0.2084		mg/Kg		87	70 - 130		
Ethylbenzene	0.307	F1	0.101	0.3765	F1	mg/Kg		69	70 - 130		
m-Xylene & p-Xylene	0.453	F1	0.202	0.5990		mg/Kg		72	70 - 130		
o-Xylene	0.271	F2 F1	0.101	0.3294	F1	mg/Kg		58	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*263*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-20653-1 MSD
Matrix: Solid
Analysis Batch: 37613

Client Sample ID: S-1 (0-1')
Prep Type: Total/NA
Prep Batch: 37637

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0994	0.1112		mg/Kg		111	70 - 130	0	35
Toluene	0.121	F1	0.0994	0.1780	F1	mg/Kg		57	70 - 130	16	35
Ethylbenzene	0.307	F1	0.0994	0.3780		mg/Kg		71	70 - 130	0	35
m-Xylene & p-Xylene	0.453	F1	0.199	0.5590	F1	mg/Kg		53	70 - 130	7	35

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-20653-1 MSD
Matrix: Solid
Analysis Batch: 37613

Client Sample ID: S-1 (0-1')
Prep Type: Total/NA
Prep Batch: 37637

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	265	S1+	70 - 130
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130

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

Lab Sample ID: MB 880-37642/1-A
Matrix: Solid
Analysis Batch: 37607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37642

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/24/22 20:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/24/22 20:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/24/22 11:14	10/24/22 20:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	10/24/22 11:14	10/24/22 20:27	1
o-Terphenyl	130		70 - 130	10/24/22 11:14	10/24/22 20:27	1

Lab Sample ID: LCS 880-37642/2-A
Matrix: Solid
Analysis Batch: 37607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37642

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	964.9		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	856.0		mg/Kg		86	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-37642/3-A
Matrix: Solid
Analysis Batch: 37607

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 37642

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1008		mg/Kg		101	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	889.5		mg/Kg		89	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	102		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-20653-2 MS
Matrix: Solid
Analysis Batch: 37607

Client Sample ID: S-1 (1.5')
Prep Type: Total/NA
Prep Batch: 37642

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	889.8		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1026		mg/Kg		103	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Lab Sample ID: 880-20653-2 MSD
Matrix: Solid
Analysis Batch: 37607

Client Sample ID: S-1 (1.5')
Prep Type: Total/NA
Prep Batch: 37642

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1001		mg/Kg		98	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1036		mg/Kg		104	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-37649/1-A
Matrix: Solid
Analysis Batch: 37738

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/24/22 19:44	1

Lab Sample ID: LCS 880-37649/2-A
Matrix: Solid
Analysis Batch: 37738

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	256.3		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-37649/3-A
Matrix: Solid
Analysis Batch: 37738

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	250.0		mg/Kg		100	90 - 110	2	20

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-20653-1 MS
Matrix: Solid
Analysis Batch: 37738

Client Sample ID: S-1 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	16.7		249	264.9		mg/Kg		100	90 - 110		

Lab Sample ID: 880-20653-1 MSD
Matrix: Solid
Analysis Batch: 37738

Client Sample ID: S-1 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	16.7		249	263.4		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 880-20653-11 MS
Matrix: Solid
Analysis Batch: 37738

Client Sample ID: S-2 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	39.4		250	306.5		mg/Kg		107	90 - 110		

Lab Sample ID: 880-20653-11 MSD
Matrix: Solid
Analysis Batch: 37738

Client Sample ID: S-2 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	39.4		250	306.5		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 37517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20653-5	S-2 (0-1')	Total/NA	Solid	5035	
880-20653-7	S-2 (2')	Total/NA	Solid	5035	
MB 880-37517/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-37517/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-37517/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3234-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-3234-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 37613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20653-1	S-1 (0-1')	Total/NA	Solid	8021B	37637
880-20653-2	S-1 (1.5')	Total/NA	Solid	8021B	37637
880-20653-3	S-1 (2')	Total/NA	Solid	8021B	37637
880-20653-4	S-1 (2.5')	Total/NA	Solid	8021B	37637
880-20653-5	S-2 (0-1')	Total/NA	Solid	8021B	37637
880-20653-6	S-2 (1.5')	Total/NA	Solid	8021B	37637
880-20653-7	S-2 (2')	Total/NA	Solid	8021B	37637
880-20653-8	S-2 (2.5')	Total/NA	Solid	8021B	37637
880-20653-9	S-2 (3')	Total/NA	Solid	8021B	37637
880-20653-10	S-2 (3.5')	Total/NA	Solid	8021B	37637
880-20653-11	S-2 (4')	Total/NA	Solid	8021B	37637
880-20653-12	S-3 (0-0.25')	Total/NA	Solid	8021B	37637
880-20653-13	S-3 (0.5')	Total/NA	Solid	8021B	37637
880-20653-14	S-3 (1')	Total/NA	Solid	8021B	37637
880-20653-15	S-3 (1.5')	Total/NA	Solid	8021B	37637
880-20653-16	H-1 (0-0.5')	Total/NA	Solid	8021B	37637
880-20653-17	H-2 (0-0.5')	Total/NA	Solid	8021B	37637
880-20653-18	H-3 (0-0.5')	Total/NA	Solid	8021B	37637
880-20653-19	H-4 (0-0.5')	Total/NA	Solid	8021B	37637
MB 880-37637/5-A	Method Blank	Total/NA	Solid	8021B	37637
LCS 880-37637/1-A	Lab Control Sample	Total/NA	Solid	8021B	37637
LCSD 880-37637/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	37637
880-20653-1 MS	S-1 (0-1')	Total/NA	Solid	8021B	37637
880-20653-1 MSD	S-1 (0-1')	Total/NA	Solid	8021B	37637

Prep Batch: 37637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20653-1	S-1 (0-1')	Total/NA	Solid	5035	
880-20653-2	S-1 (1.5')	Total/NA	Solid	5035	
880-20653-3	S-1 (2')	Total/NA	Solid	5035	
880-20653-4	S-1 (2.5')	Total/NA	Solid	5035	
880-20653-5	S-2 (0-1')	Total/NA	Solid	5035	
880-20653-6	S-2 (1.5')	Total/NA	Solid	5035	
880-20653-7	S-2 (2')	Total/NA	Solid	5035	
880-20653-8	S-2 (2.5')	Total/NA	Solid	5035	
880-20653-9	S-2 (3')	Total/NA	Solid	5035	
880-20653-10	S-2 (3.5')	Total/NA	Solid	5035	
880-20653-11	S-2 (4')	Total/NA	Solid	5035	
880-20653-12	S-3 (0-0.25')	Total/NA	Solid	5035	
880-20653-13	S-3 (0.5')	Total/NA	Solid	5035	
880-20653-14	S-3 (1')	Total/NA	Solid	5035	

QC Association Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Prep Batch: 37637 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20653-15	S-3 (1.5')	Total/NA	Solid	5035	
880-20653-16	H-1 (0-0.5')	Total/NA	Solid	5035	
880-20653-17	H-2 (0-0.5')	Total/NA	Solid	5035	
880-20653-18	H-3 (0-0.5')	Total/NA	Solid	5035	
880-20653-19	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-37637/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-37637/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-37637/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20653-1 MS	S-1 (0-1')	Total/NA	Solid	5035	
880-20653-1 MSD	S-1 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 37728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20653-5	S-2 (0-1')	Total/NA	Solid	8021B	37517
880-20653-5	S-2 (0-1')	Total/NA	Solid	8021B	37517
880-20653-7	S-2 (2')	Total/NA	Solid	8021B	37517
MB 880-37517/5-A	Method Blank	Total/NA	Solid	8021B	37517
LCS 880-37517/1-A	Lab Control Sample	Total/NA	Solid	8021B	37517
LCSD 880-37517/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	37517
890-3234-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	37517
890-3234-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	37517

Analysis Batch: 37818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20653-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-20653-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-20653-3	S-1 (2')	Total/NA	Solid	Total BTEX	
880-20653-4	S-1 (2.5')	Total/NA	Solid	Total BTEX	
880-20653-5	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-20653-6	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-20653-7	S-2 (2')	Total/NA	Solid	Total BTEX	
880-20653-8	S-2 (2.5')	Total/NA	Solid	Total BTEX	
880-20653-9	S-2 (3')	Total/NA	Solid	Total BTEX	
880-20653-10	S-2 (3.5')	Total/NA	Solid	Total BTEX	
880-20653-11	S-2 (4')	Total/NA	Solid	Total BTEX	
880-20653-12	S-3 (0-0.25')	Total/NA	Solid	Total BTEX	
880-20653-13	S-3 (0.5')	Total/NA	Solid	Total BTEX	
880-20653-14	S-3 (1')	Total/NA	Solid	Total BTEX	
880-20653-15	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-20653-16	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-20653-17	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-20653-18	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-20653-19	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 37607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20653-1	S-1 (0-1')	Total/NA	Solid	8015B NM	37642
880-20653-2	S-1 (1.5')	Total/NA	Solid	8015B NM	37642
880-20653-3	S-1 (2')	Total/NA	Solid	8015B NM	37642

QC Association Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 37607 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20653-4	S-1 (2.5')	Total/NA	Solid	8015B NM	37642
880-20653-5	S-2 (0-1')	Total/NA	Solid	8015B NM	37642
880-20653-6	S-2 (1.5')	Total/NA	Solid	8015B NM	37642
880-20653-7	S-2 (2')	Total/NA	Solid	8015B NM	37642
880-20653-8	S-2 (2.5')	Total/NA	Solid	8015B NM	37642
880-20653-9	S-2 (3')	Total/NA	Solid	8015B NM	37642
880-20653-10	S-2 (3.5')	Total/NA	Solid	8015B NM	37642
880-20653-11	S-2 (4')	Total/NA	Solid	8015B NM	37642
880-20653-12	S-3 (0-0.25')	Total/NA	Solid	8015B NM	37642
880-20653-13	S-3 (0.5')	Total/NA	Solid	8015B NM	37642
880-20653-14	S-3 (1')	Total/NA	Solid	8015B NM	37642
880-20653-15	S-3 (1.5')	Total/NA	Solid	8015B NM	37642
880-20653-16	H-1 (0-0.5')	Total/NA	Solid	8015B NM	37642
880-20653-17	H-2 (0-0.5')	Total/NA	Solid	8015B NM	37642
880-20653-18	H-3 (0-0.5')	Total/NA	Solid	8015B NM	37642
880-20653-19	H-4 (0-0.5')	Total/NA	Solid	8015B NM	37642
MB 880-37642/1-A	Method Blank	Total/NA	Solid	8015B NM	37642
LCS 880-37642/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37642
LCSD 880-37642/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37642
880-20653-2 MS	S-1 (1.5')	Total/NA	Solid	8015B NM	37642
880-20653-2 MSD	S-1 (1.5')	Total/NA	Solid	8015B NM	37642

Prep Batch: 37642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20653-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-20653-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-20653-3	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-20653-4	S-1 (2.5')	Total/NA	Solid	8015NM Prep	
880-20653-5	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-20653-6	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-20653-7	S-2 (2')	Total/NA	Solid	8015NM Prep	
880-20653-8	S-2 (2.5')	Total/NA	Solid	8015NM Prep	
880-20653-9	S-2 (3')	Total/NA	Solid	8015NM Prep	
880-20653-10	S-2 (3.5')	Total/NA	Solid	8015NM Prep	
880-20653-11	S-2 (4')	Total/NA	Solid	8015NM Prep	
880-20653-12	S-3 (0-0.25')	Total/NA	Solid	8015NM Prep	
880-20653-13	S-3 (0.5')	Total/NA	Solid	8015NM Prep	
880-20653-14	S-3 (1')	Total/NA	Solid	8015NM Prep	
880-20653-15	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-20653-16	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-20653-17	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-20653-18	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-20653-19	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-37642/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-37642/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-37642/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-20653-2 MS	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-20653-2 MSD	S-1 (1.5')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 37772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20653-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-20653-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-20653-3	S-1 (2')	Total/NA	Solid	8015 NM	
880-20653-4	S-1 (2.5')	Total/NA	Solid	8015 NM	
880-20653-5	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-20653-6	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-20653-7	S-2 (2')	Total/NA	Solid	8015 NM	
880-20653-8	S-2 (2.5')	Total/NA	Solid	8015 NM	
880-20653-9	S-2 (3')	Total/NA	Solid	8015 NM	
880-20653-10	S-2 (3.5')	Total/NA	Solid	8015 NM	
880-20653-11	S-2 (4')	Total/NA	Solid	8015 NM	
880-20653-12	S-3 (0-0.25')	Total/NA	Solid	8015 NM	
880-20653-13	S-3 (0.5')	Total/NA	Solid	8015 NM	
880-20653-14	S-3 (1')	Total/NA	Solid	8015 NM	
880-20653-15	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-20653-16	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-20653-17	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-20653-18	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-20653-19	H-4 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 37649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20653-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-20653-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-20653-3	S-1 (2')	Soluble	Solid	DI Leach	
880-20653-4	S-1 (2.5')	Soluble	Solid	DI Leach	
880-20653-5	S-2 (0-1')	Soluble	Solid	DI Leach	
880-20653-6	S-2 (1.5')	Soluble	Solid	DI Leach	
880-20653-7	S-2 (2')	Soluble	Solid	DI Leach	
880-20653-8	S-2 (2.5')	Soluble	Solid	DI Leach	
880-20653-9	S-2 (3')	Soluble	Solid	DI Leach	
880-20653-10	S-2 (3.5')	Soluble	Solid	DI Leach	
880-20653-11	S-2 (4')	Soluble	Solid	DI Leach	
880-20653-12	S-3 (0-0.25')	Soluble	Solid	DI Leach	
880-20653-13	S-3 (0.5')	Soluble	Solid	DI Leach	
880-20653-14	S-3 (1')	Soluble	Solid	DI Leach	
880-20653-15	S-3 (1.5')	Soluble	Solid	DI Leach	
880-20653-16	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-20653-17	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-20653-18	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-20653-19	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-37649/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-37649/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-37649/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20653-1 MS	S-1 (0-1')	Soluble	Solid	DI Leach	
880-20653-1 MSD	S-1 (0-1')	Soluble	Solid	DI Leach	
880-20653-11 MS	S-2 (4')	Soluble	Solid	DI Leach	
880-20653-11 MSD	S-2 (4')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

HPLC/IC

Analysis Batch: 37738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20653-1	S-1 (0-1')	Soluble	Solid	300.0	37649
880-20653-2	S-1 (1.5')	Soluble	Solid	300.0	37649
880-20653-3	S-1 (2')	Soluble	Solid	300.0	37649
880-20653-4	S-1 (2.5')	Soluble	Solid	300.0	37649
880-20653-5	S-2 (0-1')	Soluble	Solid	300.0	37649
880-20653-6	S-2 (1.5')	Soluble	Solid	300.0	37649
880-20653-7	S-2 (2')	Soluble	Solid	300.0	37649
880-20653-8	S-2 (2.5')	Soluble	Solid	300.0	37649
880-20653-9	S-2 (3')	Soluble	Solid	300.0	37649
880-20653-10	S-2 (3.5')	Soluble	Solid	300.0	37649
880-20653-11	S-2 (4')	Soluble	Solid	300.0	37649
880-20653-12	S-3 (0-0.25')	Soluble	Solid	300.0	37649
880-20653-13	S-3 (0.5')	Soluble	Solid	300.0	37649
880-20653-14	S-3 (1')	Soluble	Solid	300.0	37649
880-20653-15	S-3 (1.5')	Soluble	Solid	300.0	37649
880-20653-16	H-1 (0-0.5')	Soluble	Solid	300.0	37649
880-20653-17	H-2 (0-0.5')	Soluble	Solid	300.0	37649
880-20653-18	H-3 (0-0.5')	Soluble	Solid	300.0	37649
880-20653-19	H-4 (0-0.5')	Soluble	Solid	300.0	37649
MB 880-37649/1-A	Method Blank	Soluble	Solid	300.0	37649
LCS 880-37649/2-A	Lab Control Sample	Soluble	Solid	300.0	37649
LCSD 880-37649/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	37649
880-20653-1 MS	S-1 (0-1')	Soluble	Solid	300.0	37649
880-20653-1 MSD	S-1 (0-1')	Soluble	Solid	300.0	37649
880-20653-11 MS	S-2 (4')	Soluble	Solid	300.0	37649
880-20653-11 MSD	S-2 (4')	Soluble	Solid	300.0	37649

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-20653-1
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37613	10/24/22 13:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37607	10/24/22 22:37	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 19:59	CH	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-20653-2
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37613	10/24/22 13:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37607	10/24/22 21:32	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 20:14	CH	EET MID

Client Sample ID: S-1 (2')

Lab Sample ID: 880-20653-3
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37613	10/24/22 14:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37607	10/24/22 22:59	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 20:18	CH	EET MID

Client Sample ID: S-1 (2.5')

Lab Sample ID: 880-20653-4
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37613	10/24/22 14:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (2.5')

Lab Sample ID: 880-20653-4
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37607	10/24/22 23:21	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 20:23	CH	EET MID

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

Lab Sample ID: 880-20653-5
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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	37517	10/25/22 10:30	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	37728	10/25/22 14:58	MNR	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	37517	10/25/22 10:30	MNR	EET MID
Total/NA	Analysis	8021B		5000	5 mL	5 mL	37728	10/25/22 19:51	MNR	EET MID
Total/NA	Prep	5035			5.00 g	5 mL	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	37613	10/24/22 15:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	37607	10/24/22 23:43	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 20:28	CH	EET MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-20653-6
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	37613	10/24/22 16:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37607	10/25/22 00:04	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 20:43	CH	EET MID

Client Sample ID: S-2 (2')

Lab Sample ID: 880-20653-7
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	37517	10/25/22 10:30	MNR	EET MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	37728	10/25/22 14:37	MNR	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (2')

Lab Sample ID: 880-20653-7
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	37613	10/24/22 16:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37607	10/25/22 00:26	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 20:47	CH	EET MID

Client Sample ID: S-2 (2.5')

Lab Sample ID: 880-20653-8
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	37613	10/24/22 17:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37607	10/25/22 00:47	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 20:52	CH	EET MID

Client Sample ID: S-2 (3')

Lab Sample ID: 880-20653-9
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37613	10/24/22 14:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37607	10/25/22 01:09	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 20:57	CH	EET MID

Client Sample ID: S-2 (3.5')

Lab Sample ID: 880-20653-10
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37613	10/24/22 15:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (3.5')

Lab Sample ID: 880-20653-10
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37607	10/25/22 01:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 21:02	CH	EET MID

Client Sample ID: S-2 (4')

Lab Sample ID: 880-20653-11
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37613	10/24/22 18:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37607	10/25/22 02:13	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 21:07	CH	EET MID

Client Sample ID: S-3 (0-0.25')

Lab Sample ID: 880-20653-12
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37613	10/24/22 19:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37607	10/25/22 02:34	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 21:21	CH	EET MID

Client Sample ID: S-3 (0.5')

Lab Sample ID: 880-20653-13
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37613	10/24/22 19:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37607	10/25/22 02:56	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (0.5')

Lab Sample ID: 880-20653-13
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 21:26	CH	EET MID

Client Sample ID: S-3 (1')

Lab Sample ID: 880-20653-14
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37613	10/24/22 20:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37607	10/25/22 03:17	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 21:41	CH	EET MID

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-20653-15
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37613	10/24/22 20:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37607	10/25/22 03:39	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 21:46	CH	EET MID

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

Lab Sample ID: 880-20653-16
Matrix: Solid
Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

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	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37613	10/24/22 21:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37607	10/25/22 04:00	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 21:51	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

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

Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Lab Sample ID: 880-20653-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37613	10/24/22 21:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37607	10/25/22 04:22	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 21:56	CH	EET MID

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

Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Lab Sample ID: 880-20653-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37613	10/24/22 21:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37607	10/25/22 04:43	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 22:00	CH	EET MID

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

Date Collected: 10/20/22 00:00
Date Received: 10/24/22 09:41

Lab Sample ID: 880-20653-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	37637	10/24/22 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37613	10/24/22 22:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37818	10/25/22 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			37772	10/25/22 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37642	10/24/22 11:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37607	10/25/22 05:05	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	37649	10/24/22 11:43	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	37738	10/24/22 22:05	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
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	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-20653-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-20653-1	S-1 (0-1')	Solid	10/20/22 00:00	10/24/22 09:41
880-20653-2	S-1 (1.5')	Solid	10/20/22 00:00	10/24/22 09:41
880-20653-3	S-1 (2')	Solid	10/20/22 00:00	10/24/22 09:41
880-20653-4	S-1 (2.5')	Solid	10/20/22 00:00	10/24/22 09:41
880-20653-5	S-2 (0-1')	Solid	10/20/22 00:00	10/24/22 09:41
880-20653-6	S-2 (1.5')	Solid	10/20/22 00:00	10/24/22 09:41
880-20653-7	S-2 (2')	Solid	10/20/22 00:00	10/24/22 09:41
880-20653-8	S-2 (2.5')	Solid	10/20/22 00:00	10/24/22 09:41
880-20653-9	S-2 (3')	Solid	10/20/22 00:00	10/24/22 09:41
880-20653-10	S-2 (3.5')	Solid	10/20/22 00:00	10/24/22 09:41
880-20653-11	S-2 (4')	Solid	10/20/22 00:00	10/24/22 09:41
880-20653-12	S-3 (0-0.25')	Solid	10/20/22 00:00	10/24/22 09:41
880-20653-13	S-3 (0.5')	Solid	10/20/22 00:00	10/24/22 09:41
880-20653-14	S-3 (1')	Solid	10/20/22 00:00	10/24/22 09:41
880-20653-15	S-3 (1.5')	Solid	10/20/22 00:00	10/24/22 09:41
880-20653-16	H-1 (0-0.5')	Solid	10/20/22 00:00	10/24/22 09:41
880-20653-17	H-2 (0-0.5')	Solid	10/20/22 00:00	10/24/22 09:41
880-20653-18	H-3 (0-0.5')	Solid	10/20/22 00:00	10/24/22 09:41
880-20653-19	H-4 (0-0.5')	Solid	10/20/22 00:00	10/24/22 09:41

Work Order No: 20653

10/26/2022

Page 1 of 2

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address.	310 W Wall St Ste 415	Address	15 W London Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving, NM 88258
Phone	432-813-6823	Email	jacqui harris@conocophillips com

Work Order Comments

Program: UST/PST ☐ PRP ☐ rownfields ☐ RC ☐ perfund ☐

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Lusk Deep Unit A 23H	Turn Around	
Project Number	1160	☐ Routine ☑ Rush	
Project Location	Lea County, New Mexico	Due Date	
Sampler's Name	GP	48 Hours	
PO #			

SAMPLE RECEIPT				
Temp Blank.	Yes (No)	Wet Ice	Yes (No)	
Received Intact.	(Yes) No	Thermometer ID		TPP
Cooler Custody Seals	Yes No (N/A)	Correction Factor		.30
Sample Custody Seals	Yes No (N/A)	Temperature Reading		+82.4
Total Containers		Corrected Temperature		+52.1

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	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
S-1 (0-1')	10/20/2022		X		G	1	X	X	X	4oz jar
S-1 (1 5')	10/20/2022		X		G	1	X	X	X	
S-1 (2')	10/20/2022		X		G	1	X	X	X	
S-1 (2 5')	10/20/2022		X		G	1	X	X	X	
S-2 (0-1')	10/20/2022		X		G	1	X	X	X	
S-2 (1 5')	10/20/2022		X		G	1	X	X	X	
S-2 (2')	10/20/2022		X		G	1	X	X	X	
S-2 (2 5')	10/20/2022		X		G	1	X	X	X	
S-2 (3')	10/20/2022		X		G	1	X	X	X	
S-2 (3 5')	10/20/2022		X		G	1	X	X	X	

880-20653 Chain of Custody

Comments

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	10/24/22 9:41 MM		

Work Order No: 20653

10/26/2022

Page 1 of 2

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address	310 W Wall St Ste 415	Address.	15 W London Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving, NM 88258
Phone	432-813-6823	Email	jacqui.harris@conocophillips.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 A 23H	Turn Around	
Project Number	1160	☐ Routine ☑ Rush	
Project Location	Lea County, New Mexico	Due Date	
Sampler's Name.	GP	48 Hours	
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	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0
S-2 (4')	10/20/2022		X		G	1		X	X	X
S-3 (0-0 25')	10/20/2022		X		G	1		X	X	X
S-3(0 5')	10/20/2022		X		G	1		X	X	X
S-3 (1')	10/20/2022		X		G	1		X	X	X
S-3 (1 5')	10/20/2022		X		G	1		X	X	X
H-1 (0-0 5')	10/20/2022		X		G	1		X	X	X
H-2 (0-0 5')	10/20/2022		X		G	1		X	X	X
H-3 (0-0 5')	10/20/2022		X		G	1		X	X	X
H-4 (0-0 5')	10/20/2022		X		G	1		X	X	X

Loc: 880
20653

Sample Comments

Comments

Relinquished by (Signature)	Date/Time	Received by: (Signature)	Date/Time
	10/24/22 9:41AM		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-20653-1
SDG Number: Lea County, New Mexico

Login Number: 20653
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.	True	
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 415
Midland Texas 79701

Generated 11/17/2022 2:27:58 PM

JOB DESCRIPTION

Lusk Deep Unit A 23H
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-21657-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

my EOL

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Laboratory Job ID: 880-21657-1
SDG: Lea County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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 A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Job ID: 880-21657-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-21657-1

Receipt
The samples were received on 11/16/2022 2:40 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 1.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (5.5') (880-21657-1), CS-2 (1.5') (880-21657-2), CS-3 (1.5') (880-21657-3), CS-4 (1.5') (880-21657-4), SW-1 (5.5') (880-21657-5), SW-2 (5.5') (880-21657-6), SW-3 (5.5') (880-21657-7), SW-4 (1.5') (880-21657-8), SW-5 (1.5') (880-21657-9), SW-6 (1.5') (880-21657-10), SW-7 (1.5') (880-21657-11), SW-8 (5.5') (880-21657-12), SW-9 (5.5') (880-21657-13) and SW-10 (4') (880-21657-14).

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

GC Semi VOA
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 A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Client Sample ID: CS-1 (5.5')

Lab Sample ID: 880-21657-1
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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		11/16/22 14:40	11/17/22 02:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 02:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 02:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/16/22 14:40	11/17/22 02:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 02:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/16/22 14:40	11/17/22 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*11/16/22 14:40*	*11/17/22 02:49*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*11/16/22 14:40*	*11/17/22 02:49*	*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			11/17/22 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/17/22 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	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/16/22 21:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/16/22 21:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/16/22 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*11/16/22 16:23*	*11/16/22 21:22*	*1*
o-Terphenyl	*97*		*70 - 130*	*11/16/22 16:23*	*11/16/22 21:22*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70.8**		4.96		mg/Kg			11/17/22 04:09	1

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-21657-2
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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		11/16/22 14:40	11/17/22 03:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 03:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 03:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/16/22 14:40	11/17/22 03:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 03:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/16/22 14:40	11/17/22 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*11/16/22 14:40*	*11/17/22 03:10*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/16/22 14:40*	*11/17/22 03:10*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Client Sample ID: CS-2 (1.5')

Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

Lab Sample ID: 880-21657-2
Matrix: Solid

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			11/17/22 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/17/22 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		11/16/22 16:23	11/16/22 22:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 16:23	11/16/22 22:23	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 16:23	11/16/22 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*11/16/22 16:23*	*11/16/22 22:23*	*1*
o-Terphenyl	*83*		*70 - 130*	*11/16/22 16:23*	*11/16/22 22:23*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65.6**		4.96		mg/Kg			11/17/22 04:15	1

Client Sample ID: CS-3 (1.5')

Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

Lab Sample ID: 880-21657-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/16/22 14:40	11/17/22 03:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/16/22 14:40	11/17/22 03:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/16/22 14:40	11/17/22 03:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/16/22 14:40	11/17/22 03:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/16/22 14:40	11/17/22 03:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/16/22 14:40	11/17/22 03:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/16/22 14:40*	*11/17/22 03:30*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/16/22 14:40*	*11/17/22 03:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/17/22 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/17/22 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		11/16/22 16:23	11/16/22 22:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 16:23	11/16/22 22:43	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-21657-3
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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)	<49.9	U	49.9		mg/Kg		11/16/22 16:23	11/16/22 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*11/16/22 16:23*	*11/16/22 22:43*	*1*
o-Terphenyl	*80*		*70 - 130*	*11/16/22 16:23*	*11/16/22 22:43*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**52.1**		5.00		mg/Kg			11/17/22 04:21	1

Client Sample ID: CS-4 (1.5')

Lab Sample ID: 880-21657-4
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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		11/16/22 14:40	11/17/22 03:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 03:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 03:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/16/22 14:40	11/17/22 03:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 03:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/16/22 14:40	11/17/22 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*11/16/22 14:40*	*11/17/22 03:50*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/16/22 14:40*	*11/17/22 03:50*	*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			11/17/22 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/17/22 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	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/16/22 23:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/16/22 23:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/16/22 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*11/16/22 16:23*	*11/16/22 23:03*	*1*
o-Terphenyl	*81*		*70 - 130*	*11/16/22 16:23*	*11/16/22 23:03*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.5**		4.97		mg/Kg			11/17/22 04:26	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Client Sample ID: SW-1 (5.5')

Lab Sample ID: 880-21657-5
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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		11/16/22 14:40	11/17/22 04:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 04:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 04:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/16/22 14:40	11/17/22 04:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 04:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/16/22 14:40	11/17/22 04:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*11/16/22 14:40*	*11/17/22 04:11*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*11/16/22 14:40*	*11/17/22 04:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/17/22 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/17/22 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	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/16/22 23:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/16/22 23:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/16/22 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*11/16/22 16:23*	*11/16/22 23:24*	*1*
o-Terphenyl	*84*		*70 - 130*	*11/16/22 16:23*	*11/16/22 23:24*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55.4**		5.03		mg/Kg			11/17/22 04:32	1

Client Sample ID: SW-2 (5.5')

Lab Sample ID: 880-21657-6
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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		11/16/22 14:40	11/17/22 04:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/16/22 14:40	11/17/22 04:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/16/22 14:40	11/17/22 04:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/16/22 14:40	11/17/22 04:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/16/22 14:40	11/17/22 04:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/16/22 14:40	11/17/22 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*11/16/22 14:40*	*11/17/22 04:31*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/16/22 14:40*	*11/17/22 04:31*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Client Sample ID: SW-2 (5.5')

Lab Sample ID: 880-21657-6
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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			11/17/22 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/17/22 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	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/16/22 23:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/16/22 23:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/16/22 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*11/16/22 16:23*	*11/16/22 23:44*	*1*
o-Terphenyl	*82*		*70 - 130*	*11/16/22 16:23*	*11/16/22 23:44*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**56.4**		5.01		mg/Kg			11/17/22 04:38	1

Client Sample ID: SW-3 (5.5')

Lab Sample ID: 880-21657-7
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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		11/16/22 14:40	11/17/22 06:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:40	11/17/22 06:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:40	11/17/22 06:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/16/22 14:40	11/17/22 06:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:40	11/17/22 06:21	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/16/22 14:40	11/17/22 06:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*11/16/22 14:40*	*11/17/22 06:21*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/16/22 14:40*	*11/17/22 06:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/17/22 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/17/22 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		11/16/22 16:23	11/17/22 00:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 16:23	11/17/22 00:05	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Client Sample ID: SW-3 (5.5')

Lab Sample ID: 880-21657-7
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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)	<49.9	U	49.9		mg/Kg		11/16/22 16:23	11/17/22 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*11/16/22 16:23*	*11/17/22 00:05*	*1*
o-Terphenyl	*90*		*70 - 130*	*11/16/22 16:23*	*11/17/22 00:05*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55.3**		4.99		mg/Kg			11/17/22 04:55	1

Client Sample ID: SW-4 (1.5')

Lab Sample ID: 880-21657-8
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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		11/16/22 14:40	11/17/22 06:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 06:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 06:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/16/22 14:40	11/17/22 06:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 06:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/16/22 14:40	11/17/22 06:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*11/16/22 14:40*	*11/17/22 06:41*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/16/22 14:40*	*11/17/22 06:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/17/22 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/17/22 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	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/17/22 00:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/17/22 00:26	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/17/22 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*11/16/22 16:23*	*11/17/22 00:26*	*1*
o-Terphenyl	*81*		*70 - 130*	*11/16/22 16:23*	*11/17/22 00:26*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.9**		4.95		mg/Kg			11/17/22 05:00	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Client Sample ID: SW-5 (1.5')

Lab Sample ID: 880-21657-9
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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		11/16/22 14:40	11/17/22 07:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 07:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 07:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/16/22 14:40	11/17/22 07:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 07:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/16/22 14:40	11/17/22 07:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/16/22 14:40*	*11/17/22 07:02*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/16/22 14:40*	*11/17/22 07:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/17/22 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/17/22 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		11/16/22 16:23	11/17/22 00:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 16:23	11/17/22 00:46	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 16:23	11/17/22 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*11/16/22 16:23*	*11/17/22 00:46*	*1*
o-Terphenyl	*81*		*70 - 130*	*11/16/22 16:23*	*11/17/22 00:46*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55.6**		5.03		mg/Kg			11/17/22 05:17	1

Client Sample ID: SW-6 (1.5')

Lab Sample ID: 880-21657-10
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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		11/16/22 14:40	11/17/22 07:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:40	11/17/22 07:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:40	11/17/22 07:22	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/16/22 14:40	11/17/22 07:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:40	11/17/22 07:22	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/16/22 14:40	11/17/22 07:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/16/22 14:40*	*11/17/22 07:22*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*11/16/22 14:40*	*11/17/22 07:22*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Client Sample ID: SW-6 (1.5')

Lab Sample ID: 880-21657-10
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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			11/17/22 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/17/22 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		11/16/22 16:23	11/17/22 01:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 16:23	11/17/22 01:06	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 16:23	11/17/22 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*11/16/22 16:23*	*11/17/22 01:06*	*1*
o-Terphenyl	*80*		*70 - 130*	*11/16/22 16:23*	*11/17/22 01:06*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**56.1**		5.02		mg/Kg			11/17/22 05:23	1

Client Sample ID: SW-7 (1.5')

Lab Sample ID: 880-21657-11
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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		11/16/22 14:40	11/17/22 07:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 07:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 07:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/16/22 14:40	11/17/22 07:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 07:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/16/22 14:40	11/17/22 07:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/16/22 14:40*	*11/17/22 07:43*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/16/22 14:40*	*11/17/22 07:43*	*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			11/17/22 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/17/22 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	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/17/22 01:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/17/22 01:46	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Client Sample ID: SW-7 (1.5')

Lab Sample ID: 880-21657-11
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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)	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/17/22 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*11/16/22 16:23*	*11/17/22 01:46*	*1*
o-Terphenyl	*81*		*70 - 130*	*11/16/22 16:23*	*11/17/22 01:46*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58.0**		4.97		mg/Kg			11/17/22 05:28	1

Client Sample ID: SW-8 (5.5')

Lab Sample ID: 880-21657-12
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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		11/16/22 14:40	11/17/22 08:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 08:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 08:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/16/22 14:40	11/17/22 08:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:40	11/17/22 08:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/16/22 14:40	11/17/22 08:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*11/16/22 14:40*	*11/17/22 08:03*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*11/16/22 14:40*	*11/17/22 08:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/17/22 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/17/22 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		11/16/22 16:23	11/17/22 02:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 16:23	11/17/22 02:06	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 16:23	11/17/22 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*11/16/22 16:23*	*11/17/22 02:06*	*1*
o-Terphenyl	*78*		*70 - 130*	*11/16/22 16:23*	*11/17/22 02:06*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.1**		4.96		mg/Kg			11/17/22 05:34	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Client Sample ID: SW-9 (5.5')

Lab Sample ID: 880-21657-13
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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		11/16/22 14:40	11/17/22 08:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:40	11/17/22 08:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:40	11/17/22 08:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/16/22 14:40	11/17/22 08:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:40	11/17/22 08:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/16/22 14:40	11/17/22 08:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*11/16/22 14:40*	*11/17/22 08:23*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*11/16/22 14:40*	*11/17/22 08:23*	*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			11/17/22 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/17/22 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	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/17/22 02:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/17/22 02:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/17/22 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*11/16/22 16:23*	*11/17/22 02:27*	*1*
o-Terphenyl	*91*		*70 - 130*	*11/16/22 16:23*	*11/17/22 02:27*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54.5**		5.00		mg/Kg			11/17/22 05:40	1

Client Sample ID: SW-10 (4')

Lab Sample ID: 880-21657-14
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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		11/16/22 14:40	11/17/22 08:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/16/22 14:40	11/17/22 08:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/16/22 14:40	11/17/22 08:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/16/22 14:40	11/17/22 08:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/16/22 14:40	11/17/22 08:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/16/22 14:40	11/17/22 08:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/16/22 14:40*	*11/17/22 08:44*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/16/22 14:40*	*11/17/22 08:44*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Client Sample ID: SW-10 (4')

Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

Lab Sample ID: 880-21657-14

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/17/22 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/17/22 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	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/17/22 02:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/17/22 02:48	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/17/22 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*11/16/22 16:23*	*11/17/22 02:48*	*1*
o-Terphenyl	*94*		*70 - 130*	*11/16/22 16:23*	*11/17/22 02:48*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.1**		4.96		mg/Kg			11/17/22 05:45	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-21422-A-31-F MS	Matrix Spike	100	104
880-21422-A-31-G MSD	Matrix Spike Duplicate	100	103
880-21657-1	CS-1 (5.5')	104	111
880-21657-2	CS-2 (1.5')	70	104
880-21657-3	CS-3 (1.5')	102	104
880-21657-4	CS-4 (1.5')	108	108
880-21657-5	SW-1 (5.5')	84	112
880-21657-6	SW-2 (5.5')	103	101
880-21657-7	SW-3 (5.5')	91	101
880-21657-8	SW-4 (1.5')	85	103
880-21657-9	SW-5 (1.5')	94	105
880-21657-10	SW-6 (1.5')	93	110
880-21657-11	SW-7 (1.5')	93	104
880-21657-12	SW-8 (5.5')	82	76
880-21657-13	SW-9 (5.5')	79	99
880-21657-14	SW-10 (4')	98	104
LCS 880-39713/1-A	Lab Control Sample	85	106
LCSD 880-39713/2-A	Lab Control Sample Dup	92	97
MB 880-39259/5-A	Method Blank	77	104
MB 880-39713/5-A	Method Blank	81	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-21657-1	CS-1 (5.5')	99	97
880-21657-1 MS	CS-1 (5.5')	82	70
880-21657-1 MSD	CS-1 (5.5')	82	70
880-21657-2	CS-2 (1.5')	85	83
880-21657-3	CS-3 (1.5')	82	80
880-21657-4	CS-4 (1.5')	84	81
880-21657-5	SW-1 (5.5')	88	84
880-21657-6	SW-2 (5.5')	85	82
880-21657-7	SW-3 (5.5')	92	90
880-21657-8	SW-4 (1.5')	83	81
880-21657-9	SW-5 (1.5')	82	81
880-21657-10	SW-6 (1.5')	83	80
880-21657-11	SW-7 (1.5')	84	81
880-21657-12	SW-8 (5.5')	82	78
880-21657-13	SW-9 (5.5')	93	91
880-21657-14	SW-10 (4')	97	94
LCS 880-39792/2-A	Lab Control Sample	86	86
LCSD 880-39792/3-A	Lab Control Sample Dup	87	86
MB 880-39792/1-A	Method Blank	83	85

Surrogate Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39259/5-A
Matrix: Solid
Analysis Batch: 39686

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39259

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/22 15:16	11/16/22 13:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/22 15:16	11/16/22 13:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/22 15:16	11/16/22 13:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/10/22 15:16	11/16/22 13:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/22 15:16	11/16/22 13:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/10/22 15:16	11/16/22 13:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*11/10/22 15:16*	*11/16/22 13:25*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/10/22 15:16*	*11/16/22 13:25*	*1*

Lab Sample ID: MB 880-39713/5-A
Matrix: Solid
Analysis Batch: 39686

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/16/22 10:57	11/17/22 00:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/16/22 10:57	11/17/22 00:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/16/22 10:57	11/17/22 00:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/16/22 10:57	11/17/22 00:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/16/22 10:57	11/17/22 00:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/16/22 10:57	11/17/22 00:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*11/16/22 10:57*	*11/17/22 00:59*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/16/22 10:57*	*11/17/22 00:59*	*1*

Lab Sample ID: LCS 880-39713/1-A
Matrix: Solid
Analysis Batch: 39686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08679		mg/Kg		87	70 - 130
Toluene	0.100	0.09007		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08826		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1618		mg/Kg		81	70 - 130
o-Xylene	0.100	0.08011		mg/Kg		80	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-39713/2-A
Matrix: Solid
Analysis Batch: 39686

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39713

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08832		mg/Kg		88	70 - 130	2	35

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-39713/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39686 — **Prep Batch: 39713**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09197		mg/Kg		92	70 - 130	2	35
Ethylbenzene			0.100	0.09209		mg/Kg		92	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1686		mg/Kg		84	70 - 130	4	35
o-Xylene			0.100	0.08300		mg/Kg		83	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-21422-A-31-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39686 — **Prep Batch: 39713**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0998	0.09784		mg/Kg		98	70 - 130
Toluene	<0.00198	U	0.0998	0.09623		mg/Kg		96	70 - 130
Ethylbenzene	<0.00198	U	0.0998	0.09642		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1720		mg/Kg		86	70 - 130
o-Xylene	<0.00198	U	0.0998	0.08535		mg/Kg		86	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-21422-A-31-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39686 — **Prep Batch: 39713**

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	0.09087		mg/Kg		90	70 - 130	7	35
Toluene	<0.00198	U	0.101	0.09616		mg/Kg		95	70 - 130	0	35
Ethylbenzene	<0.00198	U	0.101	0.09396		mg/Kg		93	70 - 130	3	35
m-Xylene & p-Xylene	<0.00396	U	0.202	0.1703		mg/Kg		84	70 - 130	1	35
o-Xylene	<0.00198	U	0.101	0.08395		mg/Kg		83	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

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

Lab Sample ID: MB 880-39792/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39656 — **Prep Batch: 39792**

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		11/16/22 16:23	11/16/22 20:20	1

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-39792/1-A
Matrix: Solid
Analysis Batch: 39656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39792

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		11/16/22 16:23	11/16/22 20:20	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 16:23	11/16/22 20:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*11/16/22 16:23*	*11/16/22 20:20*	*1*
o-Terphenyl	*85*		*70 - 130*	*11/16/22 16:23*	*11/16/22 20:20*	*1*

Lab Sample ID: LCS 880-39792/2-A
Matrix: Solid
Analysis Batch: 39656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	928.9		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	899.2		mg/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Lab Sample ID: LCSD 880-39792/3-A
Matrix: Solid
Analysis Batch: 39656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39792

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	926.7		mg/Kg		93	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	901.0		mg/Kg		90	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Lab Sample ID: 880-21657-1 MS
Matrix: Solid
Analysis Batch: 39656

Client Sample ID: CS-1 (5.5')
Prep Type: Total/NA
Prep Batch: 39792

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	958.9		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	739.3		mg/Kg		74	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*82*		*70 - 130*
o-Terphenyl	*70*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-21657-1 MSD — **Client Sample ID: CS-1 (5.5')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39656 — **Prep Batch: 39792**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	978.6		mg/Kg		94	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	747.5		mg/Kg		75	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*82*		*70 - 130*
o-Terphenyl	*70*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39732/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/17/22 03:02	1

Lab Sample ID: LCS 880-39732/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.5		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-39732/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39774

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	259.3		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-21657-6 MS — **Client Sample ID: SW-2 (5.5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39774

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	56.4		251	323.8		mg/Kg		107	90 - 110

Lab Sample ID: 880-21657-6 MSD — **Client Sample ID: SW-2 (5.5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39774

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	56.4		251	323.5		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 39259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-39259/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 39686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21657-1	CS-1 (5.5')	Total/NA	Solid	8021B	39713
880-21657-2	CS-2 (1.5')	Total/NA	Solid	8021B	39713
880-21657-3	CS-3 (1.5')	Total/NA	Solid	8021B	39713
880-21657-4	CS-4 (1.5')	Total/NA	Solid	8021B	39713
880-21657-5	SW-1 (5.5')	Total/NA	Solid	8021B	39713
880-21657-6	SW-2 (5.5')	Total/NA	Solid	8021B	39713
880-21657-7	SW-3 (5.5')	Total/NA	Solid	8021B	39713
880-21657-8	SW-4 (1.5')	Total/NA	Solid	8021B	39713
880-21657-9	SW-5 (1.5')	Total/NA	Solid	8021B	39713
880-21657-10	SW-6 (1.5')	Total/NA	Solid	8021B	39713
880-21657-11	SW-7 (1.5')	Total/NA	Solid	8021B	39713
880-21657-12	SW-8 (5.5')	Total/NA	Solid	8021B	39713
880-21657-13	SW-9 (5.5')	Total/NA	Solid	8021B	39713
880-21657-14	SW-10 (4')	Total/NA	Solid	8021B	39713
MB 880-39259/5-A	Method Blank	Total/NA	Solid	8021B	39259
MB 880-39713/5-A	Method Blank	Total/NA	Solid	8021B	39713
LCS 880-39713/1-A	Lab Control Sample	Total/NA	Solid	8021B	39713
LCSD 880-39713/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39713
880-21422-A-31-F MS	Matrix Spike	Total/NA	Solid	8021B	39713
880-21422-A-31-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	39713

Prep Batch: 39713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21657-1	CS-1 (5.5')	Total/NA	Solid	5035	
880-21657-2	CS-2 (1.5')	Total/NA	Solid	5035	
880-21657-3	CS-3 (1.5')	Total/NA	Solid	5035	
880-21657-4	CS-4 (1.5')	Total/NA	Solid	5035	
880-21657-5	SW-1 (5.5')	Total/NA	Solid	5035	
880-21657-6	SW-2 (5.5')	Total/NA	Solid	5035	
880-21657-7	SW-3 (5.5')	Total/NA	Solid	5035	
880-21657-8	SW-4 (1.5')	Total/NA	Solid	5035	
880-21657-9	SW-5 (1.5')	Total/NA	Solid	5035	
880-21657-10	SW-6 (1.5')	Total/NA	Solid	5035	
880-21657-11	SW-7 (1.5')	Total/NA	Solid	5035	
880-21657-12	SW-8 (5.5')	Total/NA	Solid	5035	
880-21657-13	SW-9 (5.5')	Total/NA	Solid	5035	
880-21657-14	SW-10 (4')	Total/NA	Solid	5035	
MB 880-39713/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39713/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39713/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21422-A-31-F MS	Matrix Spike	Total/NA	Solid	5035	
880-21422-A-31-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 39837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21657-1	CS-1 (5.5')	Total/NA	Solid	Total BTEX	
880-21657-2	CS-2 (1.5')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 39837 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21657-3	CS-3 (1.5')	Total/NA	Solid	Total BTEX	
880-21657-4	CS-4 (1.5')	Total/NA	Solid	Total BTEX	
880-21657-5	SW-1 (5.5')	Total/NA	Solid	Total BTEX	
880-21657-6	SW-2 (5.5')	Total/NA	Solid	Total BTEX	
880-21657-7	SW-3 (5.5')	Total/NA	Solid	Total BTEX	
880-21657-8	SW-4 (1.5')	Total/NA	Solid	Total BTEX	
880-21657-9	SW-5 (1.5')	Total/NA	Solid	Total BTEX	
880-21657-10	SW-6 (1.5')	Total/NA	Solid	Total BTEX	
880-21657-11	SW-7 (1.5')	Total/NA	Solid	Total BTEX	
880-21657-12	SW-8 (5.5')	Total/NA	Solid	Total BTEX	
880-21657-13	SW-9 (5.5')	Total/NA	Solid	Total BTEX	
880-21657-14	SW-10 (4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 39656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21657-1	CS-1 (5.5')	Total/NA	Solid	8015B NM	39792
880-21657-2	CS-2 (1.5')	Total/NA	Solid	8015B NM	39792
880-21657-3	CS-3 (1.5')	Total/NA	Solid	8015B NM	39792
880-21657-4	CS-4 (1.5')	Total/NA	Solid	8015B NM	39792
880-21657-5	SW-1 (5.5')	Total/NA	Solid	8015B NM	39792
880-21657-6	SW-2 (5.5')	Total/NA	Solid	8015B NM	39792
880-21657-7	SW-3 (5.5')	Total/NA	Solid	8015B NM	39792
880-21657-8	SW-4 (1.5')	Total/NA	Solid	8015B NM	39792
880-21657-9	SW-5 (1.5')	Total/NA	Solid	8015B NM	39792
880-21657-10	SW-6 (1.5')	Total/NA	Solid	8015B NM	39792
880-21657-11	SW-7 (1.5')	Total/NA	Solid	8015B NM	39792
880-21657-12	SW-8 (5.5')	Total/NA	Solid	8015B NM	39792
880-21657-13	SW-9 (5.5')	Total/NA	Solid	8015B NM	39792
880-21657-14	SW-10 (4')	Total/NA	Solid	8015B NM	39792
MB 880-39792/1-A	Method Blank	Total/NA	Solid	8015B NM	39792
LCS 880-39792/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39792
LCSD 880-39792/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39792
880-21657-1 MS	CS-1 (5.5')	Total/NA	Solid	8015B NM	39792
880-21657-1 MSD	CS-1 (5.5')	Total/NA	Solid	8015B NM	39792

Prep Batch: 39792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21657-1	CS-1 (5.5')	Total/NA	Solid	8015NM Prep	
880-21657-2	CS-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-21657-3	CS-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-21657-4	CS-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-21657-5	SW-1 (5.5')	Total/NA	Solid	8015NM Prep	
880-21657-6	SW-2 (5.5')	Total/NA	Solid	8015NM Prep	
880-21657-7	SW-3 (5.5')	Total/NA	Solid	8015NM Prep	
880-21657-8	SW-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-21657-9	SW-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-21657-10	SW-6 (1.5')	Total/NA	Solid	8015NM Prep	
880-21657-11	SW-7 (1.5')	Total/NA	Solid	8015NM Prep	
880-21657-12	SW-8 (5.5')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 39792 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21657-13	SW-9 (5.5')	Total/NA	Solid	8015NM Prep	
880-21657-14	SW-10 (4')	Total/NA	Solid	8015NM Prep	
MB 880-39792/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39792/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39792/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21657-1 MS	CS-1 (5.5')	Total/NA	Solid	8015NM Prep	
880-21657-1 MSD	CS-1 (5.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21657-1	CS-1 (5.5')	Total/NA	Solid	8015 NM	
880-21657-2	CS-2 (1.5')	Total/NA	Solid	8015 NM	
880-21657-3	CS-3 (1.5')	Total/NA	Solid	8015 NM	
880-21657-4	CS-4 (1.5')	Total/NA	Solid	8015 NM	
880-21657-5	SW-1 (5.5')	Total/NA	Solid	8015 NM	
880-21657-6	SW-2 (5.5')	Total/NA	Solid	8015 NM	
880-21657-7	SW-3 (5.5')	Total/NA	Solid	8015 NM	
880-21657-8	SW-4 (1.5')	Total/NA	Solid	8015 NM	
880-21657-9	SW-5 (1.5')	Total/NA	Solid	8015 NM	
880-21657-10	SW-6 (1.5')	Total/NA	Solid	8015 NM	
880-21657-11	SW-7 (1.5')	Total/NA	Solid	8015 NM	
880-21657-12	SW-8 (5.5')	Total/NA	Solid	8015 NM	
880-21657-13	SW-9 (5.5')	Total/NA	Solid	8015 NM	
880-21657-14	SW-10 (4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 39732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21657-1	CS-1 (5.5')	Soluble	Solid	DI Leach	
880-21657-2	CS-2 (1.5')	Soluble	Solid	DI Leach	
880-21657-3	CS-3 (1.5')	Soluble	Solid	DI Leach	
880-21657-4	CS-4 (1.5')	Soluble	Solid	DI Leach	
880-21657-5	SW-1 (5.5')	Soluble	Solid	DI Leach	
880-21657-6	SW-2 (5.5')	Soluble	Solid	DI Leach	
880-21657-7	SW-3 (5.5')	Soluble	Solid	DI Leach	
880-21657-8	SW-4 (1.5')	Soluble	Solid	DI Leach	
880-21657-9	SW-5 (1.5')	Soluble	Solid	DI Leach	
880-21657-10	SW-6 (1.5')	Soluble	Solid	DI Leach	
880-21657-11	SW-7 (1.5')	Soluble	Solid	DI Leach	
880-21657-12	SW-8 (5.5')	Soluble	Solid	DI Leach	
880-21657-13	SW-9 (5.5')	Soluble	Solid	DI Leach	
880-21657-14	SW-10 (4')	Soluble	Solid	DI Leach	
MB 880-39732/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39732/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39732/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21657-6 MS	SW-2 (5.5')	Soluble	Solid	DI Leach	
880-21657-6 MSD	SW-2 (5.5')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

HPLC/IC

Analysis Batch: 39774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21657-1	CS-1 (5.5')	Soluble	Solid	300.0	39732
880-21657-2	CS-2 (1.5')	Soluble	Solid	300.0	39732
880-21657-3	CS-3 (1.5')	Soluble	Solid	300.0	39732
880-21657-4	CS-4 (1.5')	Soluble	Solid	300.0	39732
880-21657-5	SW-1 (5.5')	Soluble	Solid	300.0	39732
880-21657-6	SW-2 (5.5')	Soluble	Solid	300.0	39732
880-21657-7	SW-3 (5.5')	Soluble	Solid	300.0	39732
880-21657-8	SW-4 (1.5')	Soluble	Solid	300.0	39732
880-21657-9	SW-5 (1.5')	Soluble	Solid	300.0	39732
880-21657-10	SW-6 (1.5')	Soluble	Solid	300.0	39732
880-21657-11	SW-7 (1.5')	Soluble	Solid	300.0	39732
880-21657-12	SW-8 (5.5')	Soluble	Solid	300.0	39732
880-21657-13	SW-9 (5.5')	Soluble	Solid	300.0	39732
880-21657-14	SW-10 (4')	Soluble	Solid	300.0	39732
MB 880-39732/1-A	Method Blank	Soluble	Solid	300.0	39732
LCS 880-39732/2-A	Lab Control Sample	Soluble	Solid	300.0	39732
LCSD 880-39732/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39732
880-21657-6 MS	SW-2 (5.5')	Soluble	Solid	300.0	39732
880-21657-6 MSD	SW-2 (5.5')	Soluble	Solid	300.0	39732

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Client Sample ID: CS-1 (5.5')

Lab Sample ID: 880-21657-1
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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	39713	11/16/22 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39686	11/17/22 02:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39837	11/17/22 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			39812	11/17/22 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39792	11/16/22 16:23	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39656	11/16/22 21:22	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1			39774	11/17/22 04:09	CH	EET MID

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-21657-2
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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	39713	11/16/22 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39686	11/17/22 03:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39837	11/17/22 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			39812	11/17/22 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39792	11/16/22 16:23	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39656	11/16/22 22:23	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1			39774	11/17/22 04:15	CH	EET MID

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-21657-3
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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	39713	11/16/22 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39686	11/17/22 03:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39837	11/17/22 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			39812	11/17/22 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39792	11/16/22 16:23	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39656	11/16/22 22:43	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1			39774	11/17/22 04:21	CH	EET MID

Client Sample ID: CS-4 (1.5')

Lab Sample ID: 880-21657-4
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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	39713	11/16/22 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39686	11/17/22 03:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39837	11/17/22 14:53	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Client Sample ID: CS-4 (1.5')

Lab Sample ID: 880-21657-4
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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			39812	11/17/22 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39792	11/16/22 16:23	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39656	11/16/22 23:03	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1			39774	11/17/22 04:26	CH	EET MID

Client Sample ID: SW-1 (5.5')

Lab Sample ID: 880-21657-5
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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	39713	11/16/22 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39686	11/17/22 04:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39837	11/17/22 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			39812	11/17/22 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39792	11/16/22 16:23	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39656	11/16/22 23:24	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1			39774	11/17/22 04:32	CH	EET MID

Client Sample ID: SW-2 (5.5')

Lab Sample ID: 880-21657-6
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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	39713	11/16/22 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39686	11/17/22 04:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39837	11/17/22 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			39812	11/17/22 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39792	11/16/22 16:23	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39656	11/16/22 23:44	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1			39774	11/17/22 04:38	CH	EET MID

Client Sample ID: SW-3 (5.5')

Lab Sample ID: 880-21657-7
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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	39713	11/16/22 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39686	11/17/22 06:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39837	11/17/22 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			39812	11/17/22 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39792	11/16/22 16:23	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39656	11/17/22 00:05	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Client Sample ID: SW-3 (5.5')

Lab Sample ID: 880-21657-7
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1			39774	11/17/22 04:55	CH	EET MID

Client Sample ID: SW-4 (1.5')

Lab Sample ID: 880-21657-8
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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	39713	11/16/22 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39686	11/17/22 06:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39837	11/17/22 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			39812	11/17/22 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39792	11/16/22 16:23	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39656	11/17/22 00:26	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1			39774	11/17/22 05:00	CH	EET MID

Client Sample ID: SW-5 (1.5')

Lab Sample ID: 880-21657-9
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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	39713	11/16/22 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39686	11/17/22 07:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39837	11/17/22 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			39812	11/17/22 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39792	11/16/22 16:23	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39656	11/17/22 00:46	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1			39774	11/17/22 05:17	CH	EET MID

Client Sample ID: SW-6 (1.5')

Lab Sample ID: 880-21657-10
Matrix: Solid
Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

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	39713	11/16/22 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39686	11/17/22 07:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39837	11/17/22 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			39812	11/17/22 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39792	11/16/22 16:23	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39656	11/17/22 01:06	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1			39774	11/17/22 05:23	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Client Sample ID: SW-7 (1.5')

Lab Sample ID: 880-21657-11
Date Collected: 11/16/22 00:00
Matrix: Solid
Date Received: 11/16/22 14:40

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	39713	11/16/22 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39686	11/17/22 07:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39837	11/17/22 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			39812	11/17/22 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39792	11/16/22 16:23	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39656	11/17/22 01:46	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1			39774	11/17/22 05:28	CH	EET MID

Client Sample ID: SW-8 (5.5')

Lab Sample ID: 880-21657-12
Date Collected: 11/16/22 00:00
Matrix: Solid
Date Received: 11/16/22 14:40

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	39713	11/16/22 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39686	11/17/22 08:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39837	11/17/22 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			39812	11/17/22 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39792	11/16/22 16:23	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39656	11/17/22 02:06	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1			39774	11/17/22 05:34	CH	EET MID

Client Sample ID: SW-9 (5.5')

Lab Sample ID: 880-21657-13
Date Collected: 11/16/22 00:00
Matrix: Solid
Date Received: 11/16/22 14:40

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	39713	11/16/22 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39686	11/17/22 08:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39837	11/17/22 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			39812	11/17/22 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39792	11/16/22 16:23	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39656	11/17/22 02:27	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1			39774	11/17/22 05:40	CH	EET MID

Client Sample ID: SW-10 (4')

Lab Sample ID: 880-21657-14
Date Collected: 11/16/22 00:00
Matrix: Solid
Date Received: 11/16/22 14:40

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	39713	11/16/22 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39686	11/17/22 08:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39837	11/17/22 14:53	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Client Sample ID: SW-10 (4')

Date Collected: 11/16/22 00:00
Date Received: 11/16/22 14:40

Lab Sample ID: 880-21657-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			39812	11/17/22 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39792	11/16/22 16:23	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39656	11/17/22 02:48	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1			39774	11/17/22 05:45	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
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	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Lusk Deep Unit A 23H

Job ID: 880-21657-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-21657-1	CS-1 (5.5')	Solid	11/16/22 00:00	11/16/22 14:40
880-21657-2	CS-2 (1.5')	Solid	11/16/22 00:00	11/16/22 14:40
880-21657-3	CS-3 (1.5')	Solid	11/16/22 00:00	11/16/22 14:40
880-21657-4	CS-4 (1.5')	Solid	11/16/22 00:00	11/16/22 14:40
880-21657-5	SW-1 (5.5')	Solid	11/16/22 00:00	11/16/22 14:40
880-21657-6	SW-2 (5.5')	Solid	11/16/22 00:00	11/16/22 14:40
880-21657-7	SW-3 (5.5')	Solid	11/16/22 00:00	11/16/22 14:40
880-21657-8	SW-4 (1.5')	Solid	11/16/22 00:00	11/16/22 14:40
880-21657-9	SW-5 (1.5')	Solid	11/16/22 00:00	11/16/22 14:40
880-21657-10	SW-6 (1.5')	Solid	11/16/22 00:00	11/16/22 14:40
880-21657-11	SW-7 (1.5')	Solid	11/16/22 00:00	11/16/22 14:40
880-21657-12	SW-8 (5.5')	Solid	11/16/22 00:00	11/16/22 14:40
880-21657-13	SW-9 (5.5')	Solid	11/16/22 00:00	11/16/22 14:40
880-21657-14	SW-10 (4')	Solid	11/16/22 00:00	11/16/22 14:40

Chain of Custody

Work Order No: 21657

11/17/2022

Page 1 of 2

Project Manager:	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name.	Carmona Resources	Company Name	COG
Address:	310 W Wall St Ste 415	Address.	15 W London Rd
City, State ZIP:	Midland TX 79701	City, State ZIP:	Loving NM 88258
Phone.	432-813-6823	Email	jacqui.harris@conocophillips.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 A 23H	Turn Around	
Project Number:	1160	☐ Routine ☑ Rush	
Project Location	Lea County, New Mexico	Due Date	
Sampler's Name.	CRM	24 Hours	
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:	-.30
Sample Custody Seals.	Yes No N/A	Temperature Reading	1.3
Total Containers.		Corrected Temperature	1.0

ANALYSIS REQUEST

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL. HC; HNO_3 HN; H_2S0_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
CS-1 (5 5')	11/16/2022		X		C	1		X	X	X	402
CS-2 (1 5')	11/16/2022		X		C	1		X	X	X	
CS-3 (1 5')	11/16/2022		X		C	1		X	X	X	
CS-4 (1 5')	11/16/2022		X		C	1		X	X	X	
SW-1 (5 5')	11/16/2022		X		C	1		X	X	X	
SW-2 (5 5')	11/16/2022		X		C	1		X	X	X	
SW-3 (1 5')	11/16/2022		X		C	1		X	X	X	
SW-4 (1 5')	11/16/2022		X		C	1		X	X	X	
SW-5 (1 5')	11/16/2022		X		C	1		X	X	X	
SW-6 (1 5')	11/16/2022		X		C	1		X	X	X	

880-21657 Chain of Custody

Comments:

Relinquished by (Signature)	Date/Time	Received by: (Signature)	Date/Time
	11/16/22 1440		

Chain of Custody

Work Order No: 21657

Page 1 of 2

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name.	Carmona Resources	Company Name	COG
Address	310 W Wall St Ste 415	Address	15 W London Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving NM 88258
Phone	432-813-6823	Email.	jacqui harris@conocophillips 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 A 23H	Turn Around	
Project Number	1160	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date	
Sampler's Name.	CRM	24 Hours	
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	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0
SW-7 (1 5')	11/16/2022		X		C	1		X	X	X
SW-8 (5 5')	11/16/2022		X		C	1		X	X	X
SW-9 (5 5')	11/16/2022		X		C	1		X	X	X
SW-10 (4')	11/16/2022		X		C	1		X	X	X

ANALYSIS REQUEST — Parameters

Sample Comments

Loc: 880
21657

Comments:

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	11/16/22 1440		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-21657-1
SDG Number: Lea County, New Mexico

Login Number: 21657
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

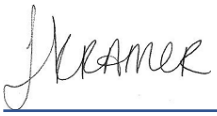
Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature 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 Midland

Job Notes

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

Authorization



Generated
11/17/2022 2:27:58 PM

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

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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 175548

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 175548
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	1/27/2023