CARMONA RESOURCES

SITE INFORMATION

Closure Report
Solution Federal Com 003H (05.11.24)
Eddy County, New Mexico
Incident ID: nAPP2415841931
Unit C Sec 05 T20S R30E
32.6089°, -103.9960°

Crude Oil Release
Point of Release: Equipment Malfunction Resulting in a Flare Fire
Release Date: 05.11.2024
Volume Released: 0.0812 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

CARMONA RESOURCES

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

CARMONA RESOURCES

July 17, 2024

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Closure Report
Solution Federal Com 003H (05.11.24)
Concho Operating, LLC
Incident ID: nAPP2415841931
Site Location: Unit C, S05, T20S, R30E
(Lat 32.6089°, Long -103.9960°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site activities for Solution Federal Com 003H (05.11.24) The site is located at 32.6089°, -103.9960° within Unit C, S05, T20S, and R30E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the Notice of Release obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on May 11, 2024, due to a flare fire caused by an equipment malfunction. This released approximately zero point zero eight one two (0.0812) barrels of crude oil with zero (0) barrels of crude oil recovered. Refer to Figure 3. The release occurred inside the flare berm and in the pasture. The Notice of Release form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is located approximately 1.15 miles Southeast of the site in S04, T20S, R30E, and was drilled in 1948. The well has a reported groundwater depth of 82’ 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, the following criteria were utilized in assessing the site.

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

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

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4.0 Site Assessment Activities

On June 17, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts from the release. A total of three (3) vertical sample points (S-1 through S-3) and six (6) horizontal sample points (H-1 through H-6) were advanced to depths ranging from the surface to 1.5' Bgs inside and surrounding the release area to assess the vertical and horizontal extent. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratory in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

See Table 1 for the analytical results.

5.0 Remediation Activities

Carmona Resources personnel were on site to oversee excavation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via NMOCD web portal on July 8, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of thirteen (13) confirmation floor samples (CS-1 through CS-13) and eight (8) sidewall samples (SW-1 through SW-8) were collected every 200 square feet to ensure the proper removal of the contaminated soils. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. All collected samples were analyzed for TPH by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. Refer to Table 2. The excavation depths and confirmation sample locations are shown in Figure 4.

6.0 Reclamation Activities

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. The material utilized for backfill was sourced from the Twin Wells Pit. The pit sample was analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

On July 12, 2024, the backfilled areas in the pasture were seeded via hand broadcasting with the appropriate pounds of pure live seed per acre. The topsoil was raked onto the seed to aid the vegetation process. The seed mixture used was the BLM Seed Mixture #1. See Appendix F for the soil survey and map and Figure 5 for the reclamation area.

Approximately 80 cubic yards of material were excavated and transported offsite for proper disposal.

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

CARMONA RESOURCES

7.0 Conclusions

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

Sincerely,
Carmona Resources, LLC

Mike Carmona
Environmental Manager

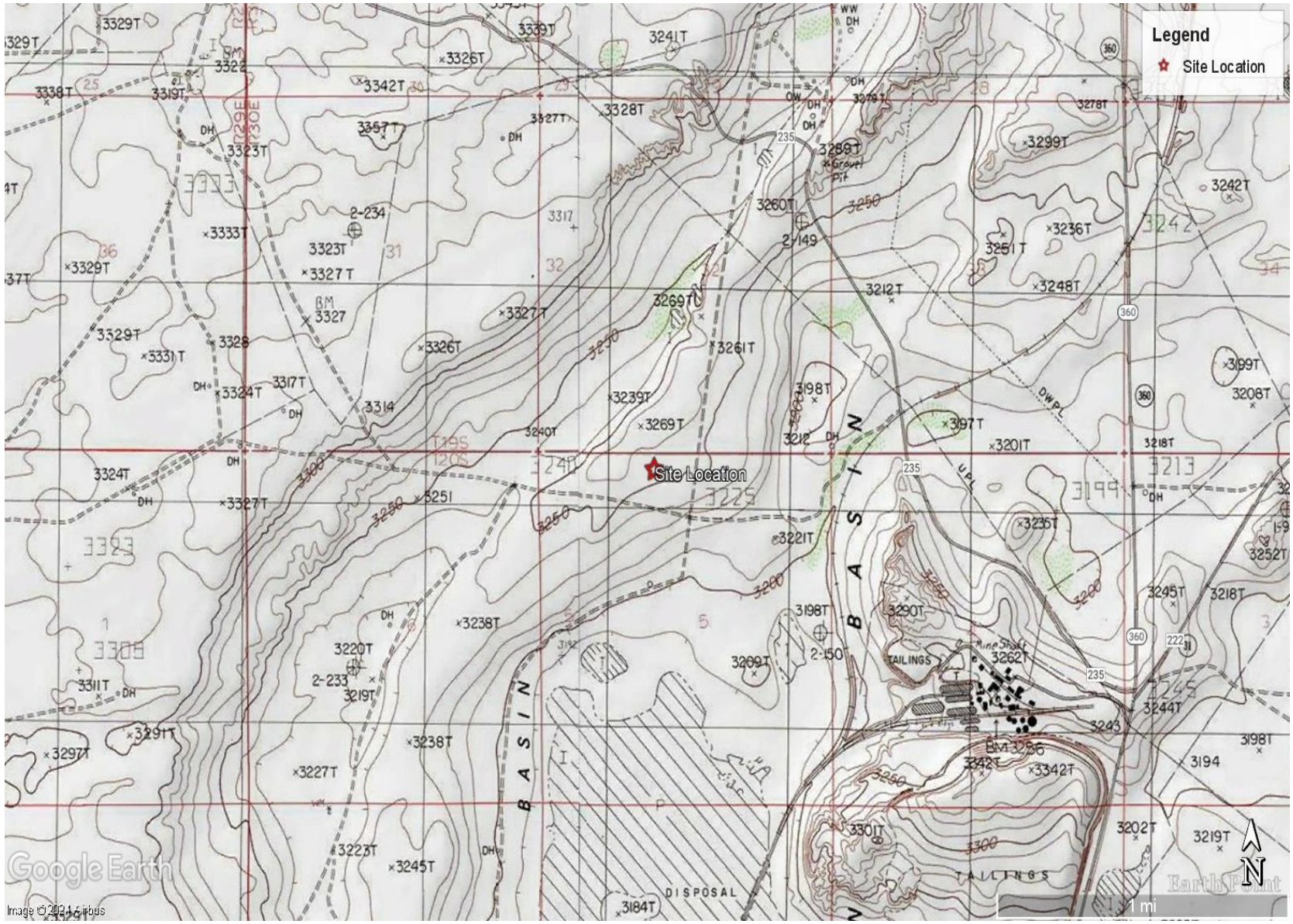
Conner Moehring
Sr. Project Manager

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

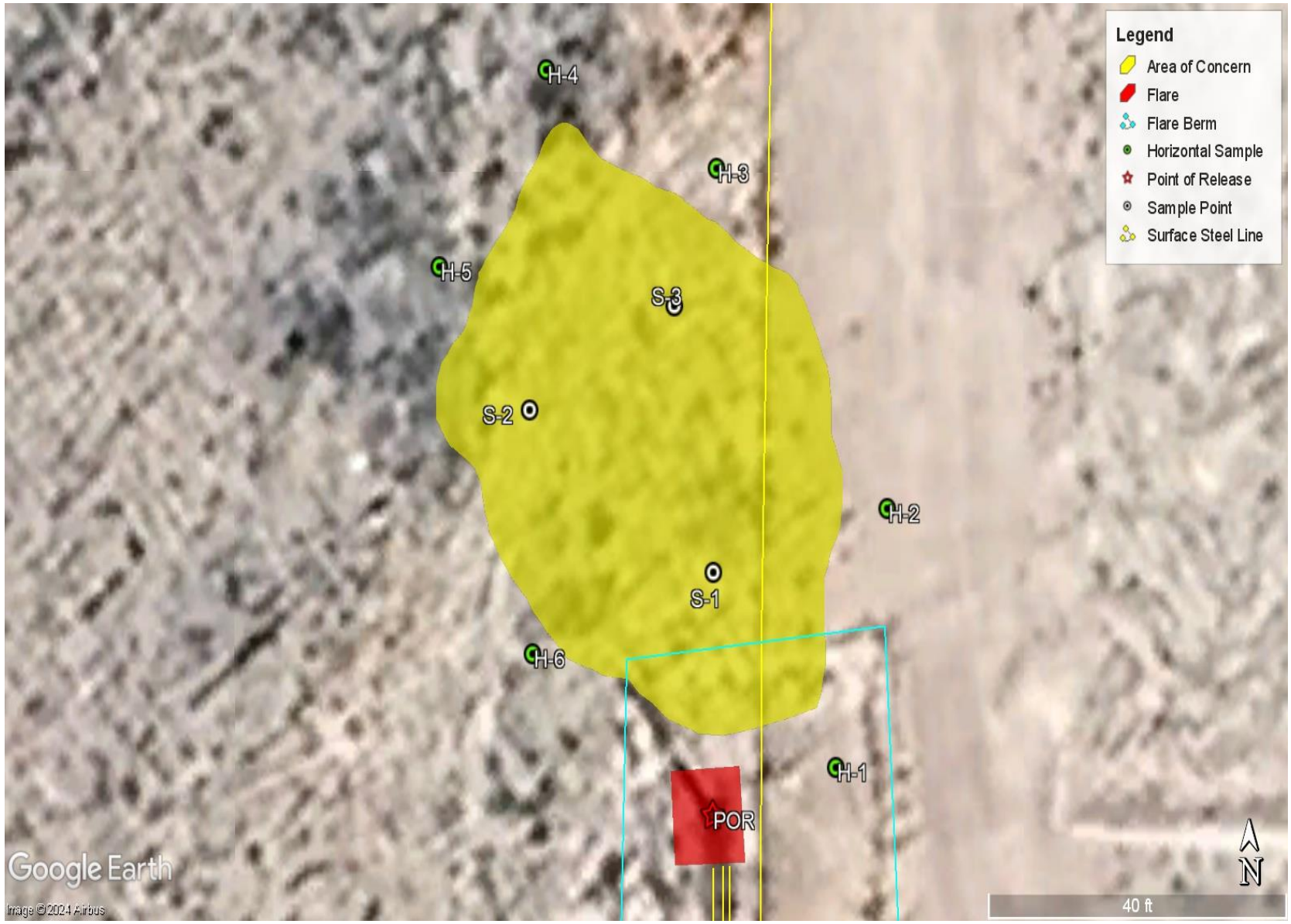
FIGURES

CARMONA RESOURCES

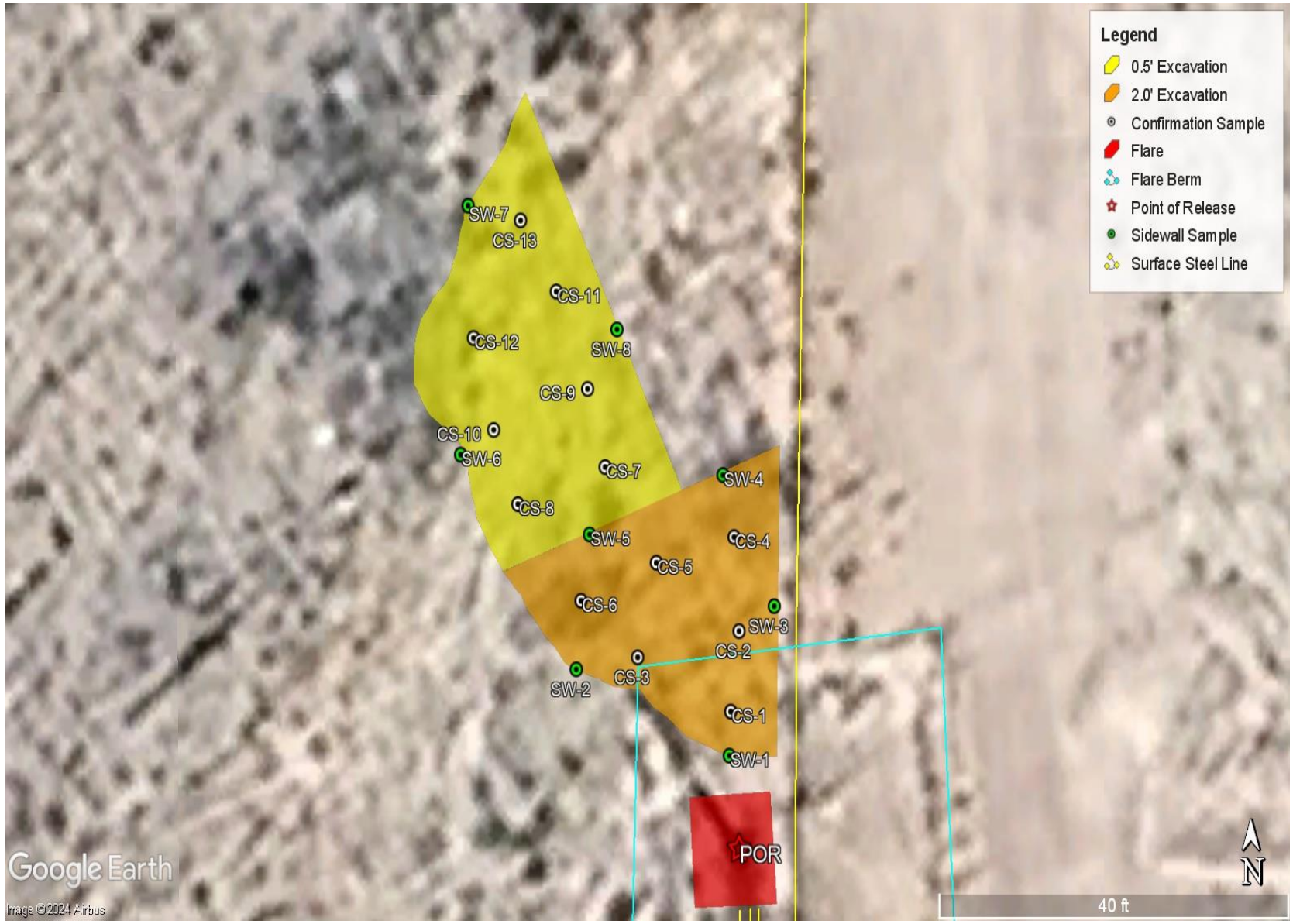
OVERVIEW MAP COG OPERATING, LLC SOLUTION FEDERAL COM 003H (05.11.24) EDDY COUNTY, NEW MEXICO 32.6089°, -103.9960°	CARMONA RESOURCES	FIGURE 1



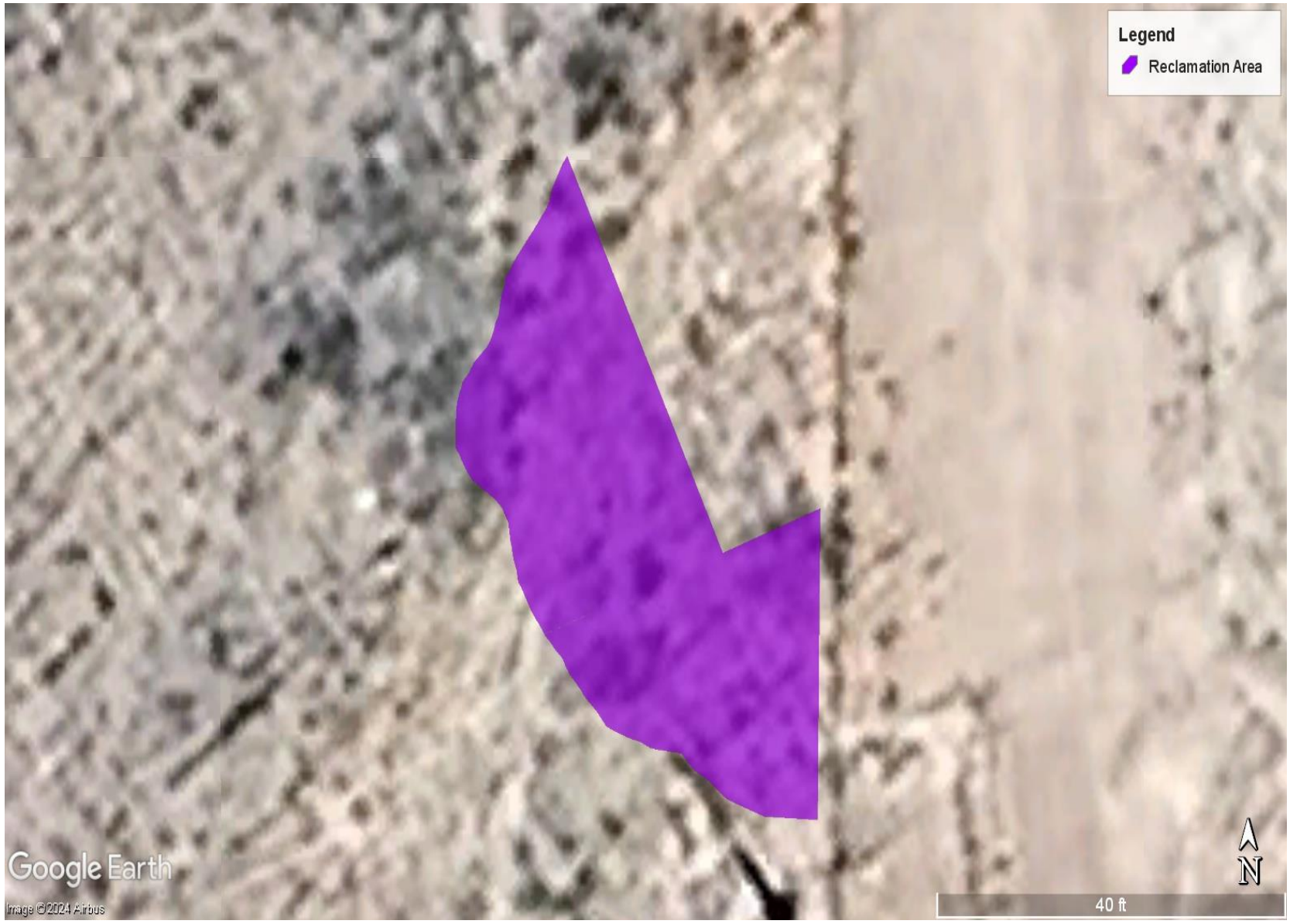
TOPOGRAPHIC MAP COG OPERATING, LLC SOLUTION FEDERAL COM 003H (05.11.24) EDDY COUNTY, NEW MEXICO 32.6089°, -103.9960°	CARMONA RESOURCES	FIGURE 2



SAMPLE LOCATION MAP COG OPERATING, LLC SOLUTION FEDERAL COM 003H (05.11.24) EDDY COUNTY, NEW MEXICO 32.6089°, -103.9960°	CARMONA RESOURCES	FIGURE 3



EXCAVATION MAP COG OPERATING, LLC SOLUTION FEDERAL COM 003H (05.11.24) EDDY COUNTY, NEW MEXICO 32.6089°, -103.9960°	CARMONA RESOURCES	FIGURE 4



RECLAMATION MAP COG OPERATING, LLC SOLUTION FEDERAL COM 003H (05.11.24) EDDY COUNTY, NEW MEXICO 32.6089°, -103.9960°	CARMONA RESOURCES	FIGURE 5

APPENDIX A

CARMONA RESOURCES

Table 1
COG Operating
Solution Federal Com 003H (05.11.24)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	6/17/2024	0-3"	<50.0	**1,500**	**252**	**1,750**	<0.0996	<0.0996	<0.0996	<0.199	<0.199	**1,180**
	"	6"	<49.8	**302**	<49.8	**302**	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	454
	"	1.0'	<49.8	**130**	<49.8	**130**	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	347
	"	1.5'	<49.9	**137**	<49.9	**137**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	302
S-2	6/17/2024	0-3"	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**725**
	"	6"	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	14.0
	"	1.0'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	127
	"	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	170
S-3	6/17/2024	0-3"	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	225
	"	6"	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	117
	"	1.0'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	155
	"	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	226
H-1	6/17/2024	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	41.6
H-2	6/17/2024	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	34.0
H-3	6/17/2024	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	40.7
H-4	6/17/2024	0-0.5'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	62.0
H-5	6/17/2024	0-0.5'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	11.3
H-6	6/17/2024	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	31.1
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
(S) Sample Point
(H) Horizontal Sample
Removed

Table 2
COG Operating
Solutions Federal Com 003H (05.11.24)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	7/11/2024	2'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-2	7/11/2024	2'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-3	7/11/2024	2'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-4	7/11/2024	2'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-5	7/11/2024	2'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-6	7/11/2024	2'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-7	7/11/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-8	7/11/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-9	7/11/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-10	7/11/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-11	7/11/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-12	7/11/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-13	7/11/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-1	7/11/2024	2'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-2	7/11/2024	2'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-3	7/11/2024	2'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-4	7/11/2024	2'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-5	7/11/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-6	7/11/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-7	7/11/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-8	7/11/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
Twin Wells Pit	7/12/2024	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
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

COG Operating

Photograph No. 1

Facility: Solution Federal Com 003H (05.11.24)

County: Eddy County, New Mexico

Description:
View South, area of CS-1 through CS-4.

Photograph No. 2

Facility: Solution Federal Com 003H (05.11.24)

County: Eddy County, New Mexico

Description:
View West, area of CS-5 and CS-6.

Photograph No. 3

Facility: Solution Federal Com 003H (05.11.24)

County: Eddy County, New Mexico

Description:
View Northeast, area of CS-7 through CS-13.

CARMONA RESOURCES

PHOTOGRAPHIC LOG

COG Operating

Photograph No. 4

Facility: Solution Federal Com 003H (05.11.24)

County: Eddy County, New Mexico

Description:
BLM #1 Seed Mixture.

Photograph No. 5

Facility: Solution Federal Com 003H (05.11.24)

County: Eddy County, New Mexico

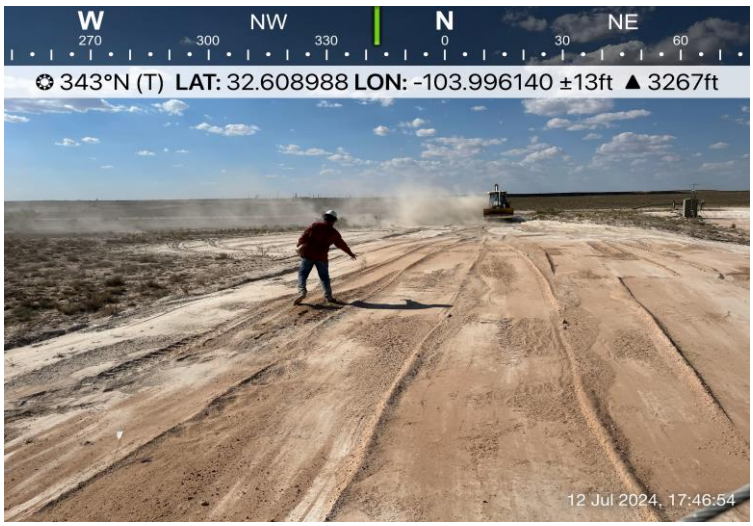
Description:
View Northwest, backfill and reseeding activities.

Photograph No. 6

Facility: Solution Federal Com 003H (05.11.24)

County: Eddy County, New Mexico

Description:
View North, backfill and reseeding activities.



CARMONA RESOURCES

APPENDIX C

CARMONA RESOURCES

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

QUESTIONS

Action 351482

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 351482
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source *Please answer all the questions in this group.*	
Site Name	Solution Federal Com 003H
Date Release Discovered	05/11/2024
Surface Owner	Federal

Incident Details *Please answer all the questions in this group.*	
Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release *Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*	
Crude Oil Released (bbls) Details	Cause: Equipment Failure | Other (Specify) | Crude Oil | Released: 0 BBL | Recovered: 0 BBL | Lost: 0 BBL.
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	*Not answered.*
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 351482
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**More volume information must be supplied to determine if this will be treated as a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(2) an unauthorized release of a volume that:** **(a) results in a fire or is the result of a fire.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	*Not answered.*
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	*Not answered.*
All free liquids and recoverable materials have been removed and managed appropriately	*Not answered.*
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph 4 of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 351482
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
☑	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☑	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☑	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.
☑	I acknowledge the fact that 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.
☑	I acknowledge the fact that, 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.

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: 351482
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
brittanyesparza	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	6/6/2024

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: Jacqui Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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

QUESTIONS

Action 361976

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 361976
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2415841931**
Incident Name	**NAPP2415841931 SOLUTION FEDERAL COM 003H @ 0**
Incident Type	**Fire**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAPP2203955700] Solution Fed 3H Battery**

Location of Release Source	
Site Name	**SOLUTION FEDERAL COM 003H**
Date Release Discovered	**05/11/2024**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	1,642
What is the estimated number of samples that will be gathered	22
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/11/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Conner Moehring (432) 813-6823
Please provide any information necessary for navigation to sampling site	Coordinates on C-141

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

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	229137
	Action Number: 361976
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jacquih	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	7/8/2024

APPENDIX D

CARMONA RESOURCES

Nearest Water Well

COG Operating

Legend

- 0.50 Mile Radius
- 1.15 Miles
- 1.16 Miles
- 1.34 Miles
- 1.55 Miles
- NMSEO Water Well
- SOLUTION FEDERAL COM 003H (05.11.2024)
- USGS Water Well

115' - Drilled 1989

SOLUTION FEDERAL COM 003H (05.11.2024)

60' - Drilled 1981

82' - Drilled 1948

24.87' - Drilled 1983

Google Earth

N

1 mi

High Karst

COG Operating

Legend

High

SOLUTION FEDERAL COM 003H (05.11.2024)

SOLUTION FEDERAL COM 003H (05.11.2024)

Google Earth

Image © 2024 Airbus

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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00644 POD2		CP	LE	1	4	3	04	20S	30E	595689	3607164*	1853	285	60	225
CP 00648 POD1	R	CP	LE	4	3	3	04	20S	30E	595488	3606960*	1856	337	82	255
CP 00648 POD2		CP	ED	4	3	3	04	20S	30E	595488	3606960*	1856	330	75	255
CP 00834 POD1		CP	LE		2	3	06	20S	30E	592566	3607436*	1961	120		
CP 00645 POD2		CP	LE	3	4	3	04	20S	30E	595689	3606964*	1989	296	62	234
CP 00742		CP	ED		3	3	31	19S	30E	592208	3608940	2154	223	115	108
CP 00825 POD1		CP	LE		3	4	28	19S	30E	596164	3610282*	2674	100		
CP 00522		CP	ED			3	30	19S	30E	592347	3610451*	2840	120	90	30
CP 00821 POD1		CP	LE		4	4	25	19S	29E	591743	3610248*	3158	120		
CP 00703 POD1		CP	ED		4	1	36	19S	29E	591050	3609382	3390	225	115	110

Average Depth to Water: **85 feet**

Minimum Depth: **60 feet**

Maximum Depth: **115 feet**

Record Count: 10

UTMNAD83 Radius Search (in meters):

Easting (X): 594287.58 **Northing (Y):** 3608376.53 **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	Tws	Rng	X	Y
	CP 00644 POD2	1	4	3	04	20S	30E	595689	3607164*

Driller License:	46	**Driller Company:**	ABBOTT BROTHERS COMPANY		
Driller Name:	ABBOTT, FLOYD				
Drill Start Date:	11/11/1981	**Drill Finish Date:**	12/01/1981	**Plug Date:**	
Log File Date:	01/08/1982	**PCW Rcv Date:**	01/06/1983	**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	1200 GPM
Casing Size:	14.00	**Depth Well:**	285 feet	**Depth Water:**	60 feet

Water Bearing Stratifications:	Top	Bottom	Description
	68	100	Other/Unknown
	143	160	Other/Unknown
	250	285	Other/Unknown

Casing Perforations:	Top	Bottom
	155	285

***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 00648 POD1	4	3	3	04	20S	30E	595488	3606960*

Driller License:		**Driller Company:**			
Driller Name:	E. BARRON				
Drill Start Date:		**Drill Finish Date:**	01/28/1948	**Plug Date:**	
Log File Date:		**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:	TURBIN	**Pipe Discharge Size:**		**Estimated Yield:**	1000 GPM
Casing Size:		**Depth Well:**	337 feet	**Depth Water:**	82 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	Twn	Rng	X	Y
	CP 00742		3	3	31	19S	30E	592208	3608940

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

Driller Name: GLENN, CLARK A."CORKY" (LD)

Drill Start Date:	08/04/1989	**Drill Finish Date:**	08/04/1989	**Plug Date:**	
Log File Date:	08/10/1989	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	150 GPM
Casing Size:	6.63	**Depth Well:**	223 feet	**Depth Water:**	115 feet

Water Bearing Stratifications:	Top	Bottom	Description
	165	178	Limestone/Dolomite/Chalk
	181	213	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	145	223

Meter Number:	18977	**Meter Make:**	OCTAVE
Meter Serial Number:	162038182	**Meter Multiplier:**	1.0000
Number of Dials:	9	**Meter Type:**	Diversion
Unit of Measure:	Gallons	**Return Flow Percent:**	
Usage Multiplier:		**Reading Frequency:**	Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
06/13/2017	2017	11523284	A	RPT	initial reading	0	
06/30/2017	2017	12586800	A	RPT		3.264	
07/31/2017	2017	12669000	A	RPT		0.252	
08/31/2017	2017	14521900	A	RPT		5.686	
09/30/2017	2017	15552294	A	RPT		3.162	
10/31/2017	2017	16451244	A	RPT		2.759	
11/30/2017	2017	16953818	A	RPT		1.542	
12/31/2017	2017	17008136	A	RPT		0.167	
01/31/2018	2018	17008136	A	RPT		0	
02/28/2018	2018	17047236	A	RPT		0.120	
03/31/2018	2018	17047236	A	RPT		0	
05/31/2018	2018	20986282	A	RPT		12.088	
12/31/2018	2018	11266838	A	RPT		0	
03/31/2019	2019	11438917	A	RPT		0.528	
04/30/2019	2019	12436932	A	RPT		3.063	
05/31/2019	2019	13973706	A	RPT		4.716	
06/30/2019	2019	15739955	A	RPT		5.420	
09/30/2019	2019	21562624	A	RPT		17.869	
10/31/2019	2019	21684664	A	RPT		0.375	

02/29/2020	2020	22530023	A	RPT		2.594
04/30/2020	2020	23188462	A	RPT		2.021
05/31/2020	2020	23188462	A	RPT		0
08/31/2020	2020	23188462	A	RPT		0
09/30/2020	2020	23188462	A	RPT		0
11/30/2020	2020	23188462	A	WEB		0 X
12/31/2020	2020	23188462	A	WEB		0 X
01/31/2021	2021	23188462	A	ca		0
02/28/2021	2021	23188462	A	RPT		0
04/30/2021	2021	32188462	A	ad		27.620
05/31/2023	2023	25858857	R	ad	Meter Rollover	3049.462
06/30/2023	2023	25870859	A	ad		0.037
08/31/2023	2023	28767160	A	ad		8.888
10/31/2023	2023	32516447	A	ad		11.506
11/30/2023	2023	33496847	A	ad		3.009

x

**YTD Meter Amounts:	Year	Amount
	2017	16.832
	2018	12.208
	2019	31.971
	2020	4.615
	2021	27.620
	2023	3072.902

x

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	? S

Groundwater | New Mexico | GO

Click to hideNews Bulletins

- 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 =
- 323540104005601

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

USGS 323540104005601 20S.30E.07.11221

Eddy County, New Mexico
Latitude 32°35'40", Longitude 104°00'56" NAD27
Land-surface elevation 3,228 feet above NAVD88
The depth of the well is 42 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measure
1965-12-20		D	62610		3203.80	NGVD29	1	Z		
1965-12-20		D	62611		3205.31	NAVD88	1	Z		
1965-12-20		D	72019	22.69			1	Z		
1968-05-27		D	62610		3198.40	NGVD29	1	Z		
1968-05-27		D	62611		3199.91	NAVD88	1	Z		
1968-05-27		D	72019	28.09			1	Z		
1971-02-09		D	62610		3198.99	NGVD29	P	Z		
1971-02-09		D	62611		3200.50	NAVD88	P	Z		
1971-02-09		D	72019	27.50			P	Z		
1977-12-15		D	62610		3199.25	NGVD29	1	Z		
1977-12-15		D	62611		3200.76	NAVD88	1	Z		
1977-12-15		D	72019	27.24			1	Z		
1978-05-23		D	62610		3197.15	NGVD29	P	Z		
1978-05-23		D	62611		3198.66	NAVD88	P	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	? S
1978-05-23	D	72019	29.34			P	Z	
1978-06-08	D	62610		3197.20	NGVD29	P	Z	
1978-06-08	D	62611		3198.71	NAVD88	P	Z	
1978-06-08	D	72019	29.29			P	Z	
1978-07-18	D	62610		3197.28	NGVD29	P	Z	
1978-07-18	D	62611		3198.79	NAVD88	P	Z	
1978-07-18	D	72019	29.21			P	Z	
1978-08-19	D	62610		3197.04	NGVD29	P	Z	
1978-08-19	D	62611		3198.55	NAVD88	P	Z	
1978-08-19	D	72019	29.45			P	Z	
1978-09-27	D	62610		3197.14	NGVD29	1	Z	
1978-09-27	D	62611		3198.65	NAVD88	1	Z	
1978-09-27	D	72019	29.35			1	Z	
1978-12-14	D	62610		3197.47	NGVD29	P	Z	
1978-12-14	D	62611		3198.98	NAVD88	P	Z	
1978-12-14	D	72019	29.02			P	Z	
1979-01-17	D	62610		3197.72	NGVD29	1	Z	
1979-01-17	D	62611		3199.23	NAVD88	1	Z	
1979-01-17	D	72019	28.77			1	Z	
1979-02-14	D	62610		3197.77	NGVD29	P	Z	
1979-02-14	D	62611		3199.28	NAVD88	P	Z	
1979-02-14	D	72019	28.72			P	Z	
1979-03-15	D	62610		3197.80	NGVD29	P	Z	
1979-03-15	D	62611		3199.31	NAVD88	P	Z	
1979-03-15	D	72019	28.69			P	Z	
1983-01-20	D	62610		3201.62	NGVD29	1	Z	
1983-01-20	D	62611		3203.13	NAVD88	1	Z	
1983-01-20	D	72019	24.87			1	Z	

Explanation

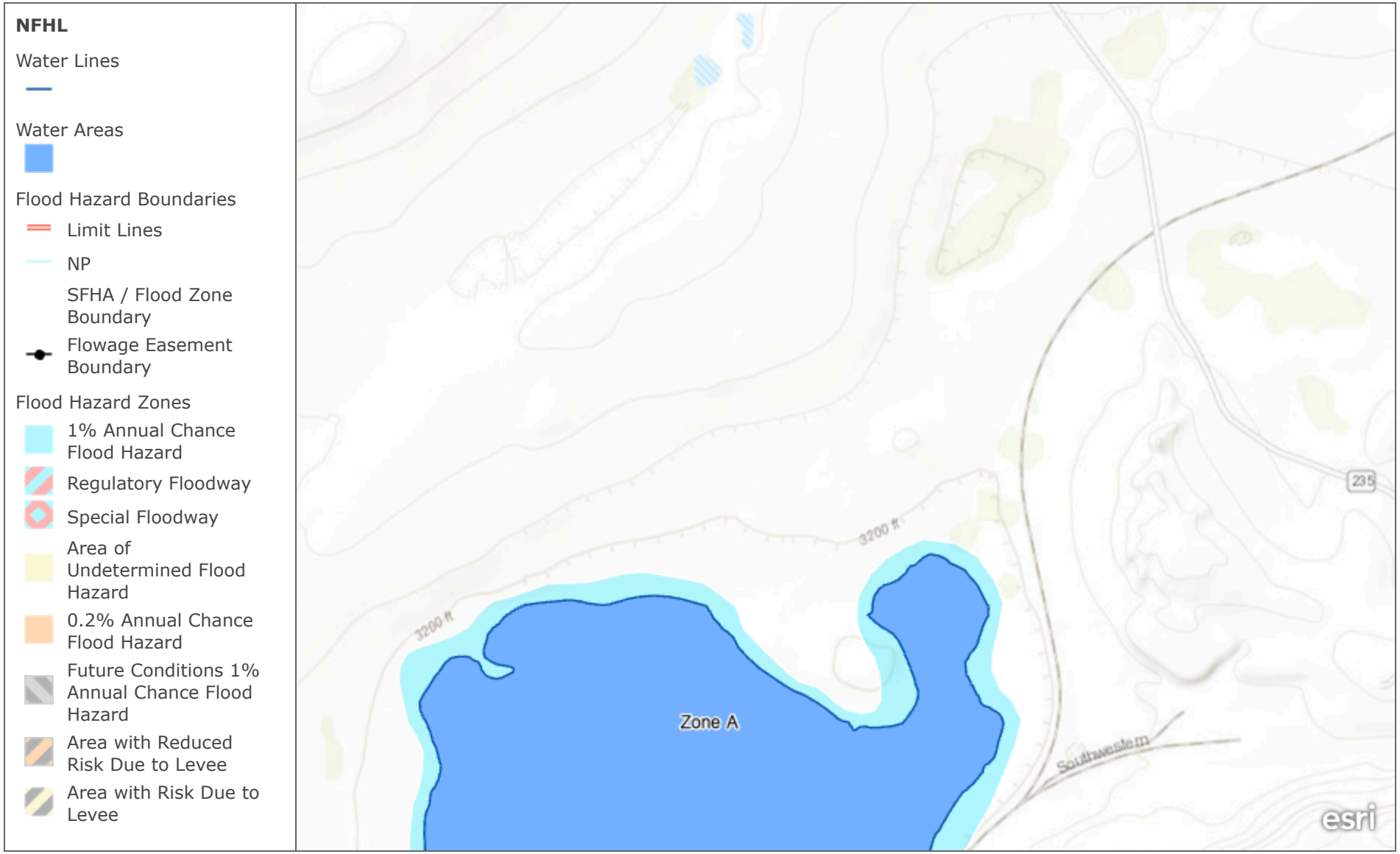
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum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

Questions or Comments
Automated retrievals
Help
Data Tips
Explanation of terms

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	? S

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2024-04-12 09:32:44 EDT
0.3 0.27 nadww02

FEMA National Flood Hazard Layer (NFHL)



FEMA flood layer

Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA

FEMA National Flood Hazard Layer (NFHL)

FEMA flood layer

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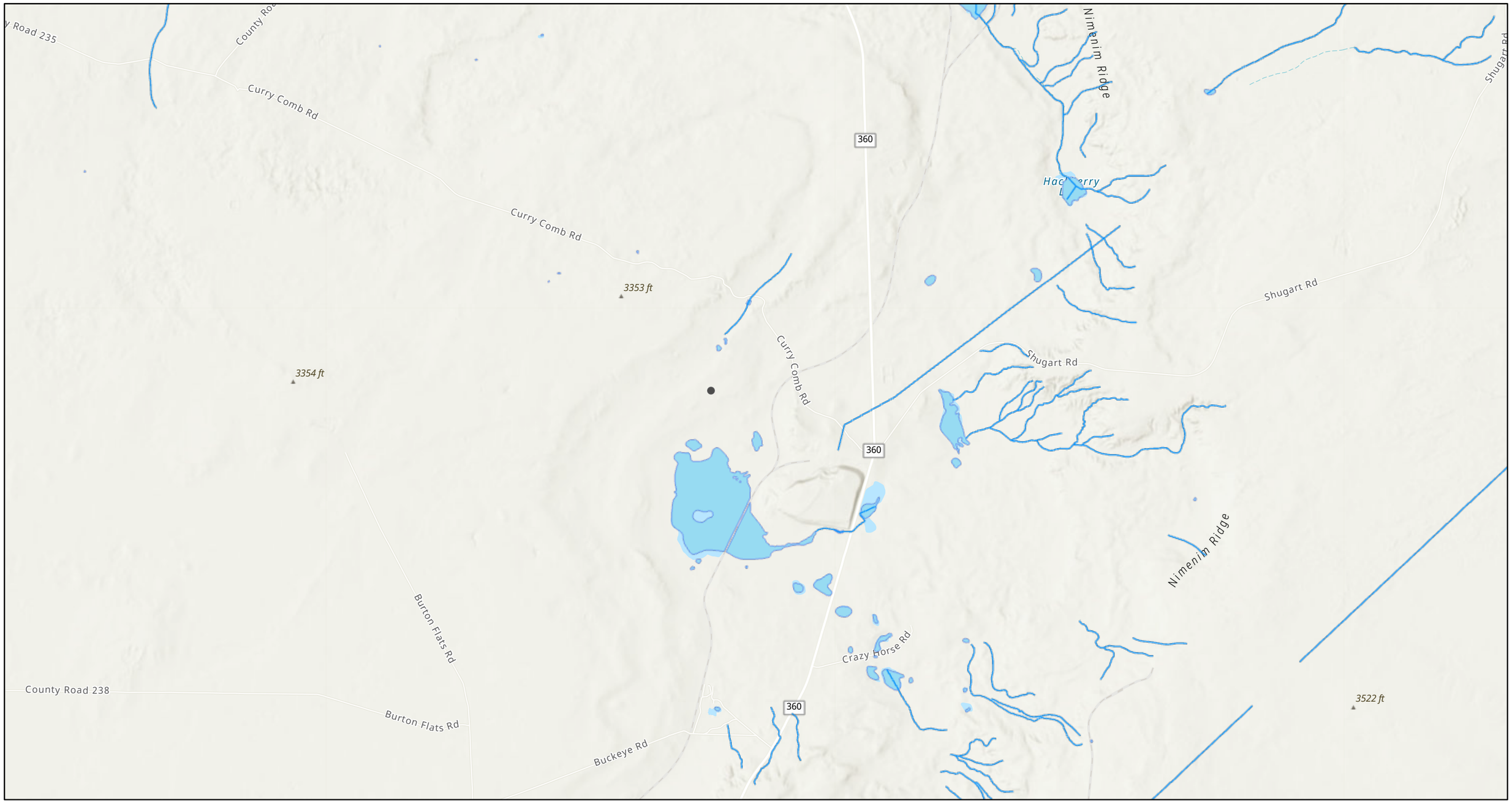
SOLUTION FEDERAL COM 003H (05.11.2024)



6/9/2024, 6:57:20 PM

OSW Water Bodys

OSE Streams

1:72,224

0 0.75 1.5 3 mi

0 1.25 2.5 5 km

Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Esri, NASA, NGA, USGS, FEMA, NM OSE

APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/20/2024 10:08:52 AM

JOB DESCRIPTION

Solution Federal Com 003H (05.11.2024)
Eddy County, New Mexico

JOB NUMBER

880-44904-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
6/20/2024 10:08:52 AM

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

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources Job ID: 880-44904-1
Project: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1 Eurofins Midland

Job Narrative
880-44904-1

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

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

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

Receipt
The samples were received on 6/18/2024 1:50 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 5.2°C.

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-83496 and analytical batch 880-83538 was outside the upper control limits.

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

Diesel Range Organics
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-83483 and analytical batch 880-83526 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-83526 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-83526/58).

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The following samples required confirmation (CON) due to a an interference affecting Chloride : (880-44899-A-1-E), (880-44899-A-1-F MS) and (880-44899-A-1-G MSD).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike (MS) recoveries for preparation batch 880-83484 and analytical batch 880-83501 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. S-1 (0-3") (880-44904-1), S-1 (6") (880-44904-2), S-1 (1') (880-44904-3), S-1 (1.5') (880-44904-4), (880-44899-A-1-E) and (880-44899-A-1-F MS)

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike (MS) recoveries for preparation batch 880-83484 and analytical batch 880-83501 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

S-2 (0-3") (880-44904-5), S-2 (6") (880-44904-6), S-2 (1') (880-44904-7), S-2 (1.5') (880-44904-8), S-3 (0-3") (880-44904-9), S-3 (6") (880-44904-10), S-3 (1') (880-44904-11), S-3 (1.5') (880-44904-12) and (880-44904-A-5-D MS)

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

Client Sample Results

Client: Carmona Resources
Job ID: 880-44904-1
Project/Site: Solution Federal Com 003H (05.11.2024)
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44904-1
Date Collected: 06/17/24 00:00
Matrix: Solid
Date Received: 06/18/24 13:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0996	U	0.0996		mg/Kg		06/18/24 16:09	06/19/24 15:51	50
Toluene	<0.0996	U	0.0996		mg/Kg		06/18/24 16:09	06/19/24 15:51	50
Ethylbenzene	<0.0996	U	0.0996		mg/Kg		06/18/24 16:09	06/19/24 15:51	50
m-Xylene & p-Xylene	<0.199	U	0.199		mg/Kg		06/18/24 16:09	06/19/24 15:51	50
o-Xylene	<0.0996	U	0.0996		mg/Kg		06/18/24 16:09	06/19/24 15:51	50
Xylenes, Total	<0.199	U	0.199		mg/Kg		06/18/24 16:09	06/19/24 15:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*06/18/24 16:09*	*06/19/24 15:51*	*50*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/18/24 16:09*	*06/19/24 15:51*	*50*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.199	U	0.199		mg/Kg			06/19/24 15:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1750**		50.0		mg/Kg			06/19/24 13:42	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		06/18/24 15:38	06/19/24 13:42	1
Diesel Range Organics (Over C10-C28)	**1500**		50.0		mg/Kg		06/18/24 15:38	06/19/24 13:42	1
Oil Range Organics (Over C28-C36)	**252**		50.0		mg/Kg		06/18/24 15:38	06/19/24 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*06/18/24 15:38*	*06/19/24 13:42*	*1*
o-Terphenyl	*92*		*70 - 130*	*06/18/24 15:38*	*06/19/24 13:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1180**		25.2		mg/Kg			06/19/24 08:01	5

Client Sample ID: S-1 (6")

Lab Sample ID: 880-44904-2
Date Collected: 06/17/24 00:00
Matrix: Solid
Date Received: 06/18/24 13:50

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		06/18/24 16:09	06/19/24 12:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/18/24 16:09	06/19/24 12:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/18/24 16:09	06/19/24 12:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/18/24 16:09	06/19/24 12:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/18/24 16:09	06/19/24 12:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/18/24 16:09	06/19/24 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*06/18/24 16:09*	*06/19/24 12:47*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*06/18/24 16:09*	*06/19/24 12:47*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (6")

Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44904-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/19/24 12:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**302**		49.8		mg/Kg			06/19/24 14:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 14:02	1
Diesel Range Organics (Over C10-C28)	**302**		49.8		mg/Kg		06/18/24 15:38	06/19/24 14:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*06/18/24 15:38*	*06/19/24 14:02*	*1*
o-Terphenyl	*90*		*70 - 130*	*06/18/24 15:38*	*06/19/24 14:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**454**		4.97		mg/Kg			06/19/24 08:07	1

Client Sample ID: S-1 (1')

Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44904-3
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		06/18/24 16:09	06/19/24 13:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/18/24 16:09	06/19/24 13:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/18/24 16:09	06/19/24 13:08	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/18/24 16:09	06/19/24 13:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/18/24 16:09	06/19/24 13:08	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/18/24 16:09	06/19/24 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*06/18/24 16:09*	*06/19/24 13:08*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*06/18/24 16:09*	*06/19/24 13:08*	*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			06/19/24 13:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**130**		49.8		mg/Kg			06/19/24 14:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 14:22	1
Diesel Range Organics (Over C10-C28)	**130**		49.8		mg/Kg		06/18/24 15:38	06/19/24 14:22	1

Client Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1')

Lab Sample ID: 880-44904-3
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*06/18/24 15:38*	*06/19/24 14:22*	*1*
o-Terphenyl	*93*		*70 - 130*	*06/18/24 15:38*	*06/19/24 14:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**347**		5.02		mg/Kg			06/19/24 08:13	1

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-44904-4
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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		06/18/24 16:09	06/19/24 13:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/18/24 16:09	06/19/24 13:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/18/24 16:09	06/19/24 13:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/18/24 16:09	06/19/24 13:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/18/24 16:09	06/19/24 13:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/18/24 16:09	06/19/24 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*06/18/24 16:09*	*06/19/24 13:28*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*06/18/24 16:09*	*06/19/24 13:28*	*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			06/19/24 13:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**137**		49.9		mg/Kg			06/19/24 15:03	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		06/18/24 15:38	06/19/24 15:03	1
Diesel Range Organics (Over C10-C28)	**137**		49.9		mg/Kg		06/18/24 15:38	06/19/24 15:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/18/24 15:38	06/19/24 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*06/18/24 15:38*	*06/19/24 15:03*	*1*
o-Terphenyl	*97*		*70 - 130*	*06/18/24 15:38*	*06/19/24 15:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**302**		5.01		mg/Kg			06/19/24 08:19	1

Client Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (0-3")

Lab Sample ID: 880-44904-5
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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		06/18/24 16:09	06/19/24 13:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/18/24 16:09	06/19/24 13:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/18/24 16:09	06/19/24 13:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/18/24 16:09	06/19/24 13:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/18/24 16:09	06/19/24 13:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/18/24 16:09	06/19/24 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/18/24 16:09*	*06/19/24 13:49*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*06/18/24 16:09*	*06/19/24 13:49*	*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			06/19/24 13:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/19/24 15:24	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		06/18/24 15:38	06/19/24 15:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/18/24 15:38	06/19/24 15:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/18/24 15:38	06/19/24 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*06/18/24 15:38*	*06/19/24 15:24*	*1*
o-Terphenyl	*127*		*70 - 130*	*06/18/24 15:38*	*06/19/24 15:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**725**	**F1**	25.1		mg/Kg			06/19/24 08:25	5

Client Sample ID: S-2 (6")

Lab Sample ID: 880-44904-6
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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		06/18/24 16:09	06/19/24 14:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/18/24 16:09	06/19/24 14:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/18/24 16:09	06/19/24 14:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/18/24 16:09	06/19/24 14:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/18/24 16:09	06/19/24 14:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/18/24 16:09	06/19/24 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/18/24 16:09*	*06/19/24 14:09*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*06/18/24 16:09*	*06/19/24 14:09*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (6")

Lab Sample ID: 880-44904-6
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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			06/19/24 14:09	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			06/19/24 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/18/24 15:38	06/19/24 15:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/18/24 15:38	06/19/24 15:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/18/24 15:38	06/19/24 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*06/18/24 15:38*	*06/19/24 15:44*	*1*
o-Terphenyl	*111*		*70 - 130*	*06/18/24 15:38*	*06/19/24 15:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.0**		5.02		mg/Kg			06/19/24 09:00	1

Client Sample ID: S-2 (1')

Lab Sample ID: 880-44904-7
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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		06/18/24 16:09	06/19/24 14:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/18/24 16:09	06/19/24 14:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/18/24 16:09	06/19/24 14:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/18/24 16:09	06/19/24 14:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/18/24 16:09	06/19/24 14:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/18/24 16:09	06/19/24 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*06/18/24 16:09*	*06/19/24 14:30*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*06/18/24 16:09*	*06/19/24 14:30*	*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			06/19/24 14:30	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			06/19/24 16:05	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		06/18/24 15:38	06/19/24 16:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/18/24 15:38	06/19/24 16:05	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (1')

Lab Sample ID: 880-44904-7
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/18/24 15:38	06/19/24 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*06/18/24 15:38*	*06/19/24 16:05*	*1*
o-Terphenyl	*88*		*70 - 130*	*06/18/24 15:38*	*06/19/24 16:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**127**		4.98		mg/Kg			06/19/24 09:06	1

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-44904-8
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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		06/18/24 16:09	06/19/24 14:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/18/24 16:09	06/19/24 14:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/18/24 16:09	06/19/24 14:50	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/18/24 16:09	06/19/24 14:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/18/24 16:09	06/19/24 14:50	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/18/24 16:09	06/19/24 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*06/18/24 16:09*	*06/19/24 14:50*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/18/24 16:09*	*06/19/24 14:50*	*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			06/19/24 14:50	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			06/19/24 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/18/24 15:38	06/19/24 16:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/18/24 15:38	06/19/24 16:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/18/24 15:38	06/19/24 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*06/18/24 15:38*	*06/19/24 16:25*	*1*
o-Terphenyl	*116*		*70 - 130*	*06/18/24 15:38*	*06/19/24 16:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		5.03		mg/Kg			06/19/24 09:24	1

Client Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (0-3")

Lab Sample ID: 880-44904-9
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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		06/18/24 16:09	06/19/24 15:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/18/24 16:09	06/19/24 15:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/18/24 16:09	06/19/24 15:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/18/24 16:09	06/19/24 15:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/18/24 16:09	06/19/24 15:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/18/24 16:09	06/19/24 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/18/24 16:09*	*06/19/24 15:11*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*06/18/24 16:09*	*06/19/24 15:11*	*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			06/19/24 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/19/24 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/18/24 15:38	06/19/24 16:46	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/18/24 15:38	06/19/24 16:46	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/18/24 15:38	06/19/24 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*06/18/24 15:38*	*06/19/24 16:46*	*1*
o-Terphenyl	*113*		*70 - 130*	*06/18/24 15:38*	*06/19/24 16:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**225**		5.04		mg/Kg			06/19/24 09:30	1

Client Sample ID: S-3 (6")

Lab Sample ID: 880-44904-10
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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		06/18/24 16:09	06/19/24 15:31	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/18/24 16:09	06/19/24 15:31	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/18/24 16:09	06/19/24 15:31	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/18/24 16:09	06/19/24 15:31	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/18/24 16:09	06/19/24 15:31	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/18/24 16:09	06/19/24 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/18/24 16:09*	*06/19/24 15:31*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*06/18/24 16:09*	*06/19/24 15:31*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (6")

Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44904-10
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/19/24 15:31	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			06/19/24 17:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 17:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 17:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*06/18/24 15:38*	*06/19/24 17:06*	*1*
o-Terphenyl	*103*		*70 - 130*	*06/18/24 15:38*	*06/19/24 17:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**117**		4.97		mg/Kg			06/19/24 09:36	1

Client Sample ID: S-3 (1')

Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44904-11
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		06/18/24 16:09	06/19/24 17:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/18/24 16:09	06/19/24 17:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/18/24 16:09	06/19/24 17:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/18/24 16:09	06/19/24 17:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/18/24 16:09	06/19/24 17:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/18/24 16:09	06/19/24 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*06/18/24 16:09*	*06/19/24 17:43*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/18/24 16:09*	*06/19/24 17:43*	*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			06/19/24 17:43	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			06/19/24 17:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 17:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 17:27	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (1')

Lab Sample ID: 880-44904-11
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*06/18/24 15:38*	*06/19/24 17:27*	*1*
o-Terphenyl	*112*		*70 - 130*	*06/18/24 15:38*	*06/19/24 17:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**155**		5.03		mg/Kg			06/19/24 09:41	1

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-44904-12
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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		06/18/24 16:09	06/19/24 18:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/18/24 16:09	06/19/24 18:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/18/24 16:09	06/19/24 18:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/18/24 16:09	06/19/24 18:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/18/24 16:09	06/19/24 18:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/18/24 16:09	06/19/24 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/18/24 16:09*	*06/19/24 18:03*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*06/18/24 16:09*	*06/19/24 18:03*	*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			06/19/24 18:03	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			06/19/24 17:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/18/24 15:38	06/19/24 17:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/18/24 15:38	06/19/24 17:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/18/24 15:38	06/19/24 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*06/18/24 15:38*	*06/19/24 17:47*	*1*
o-Terphenyl	*118*		*70 - 130*	*06/18/24 15:38*	*06/19/24 17:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**226**		4.98		mg/Kg			06/19/24 09:47	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy 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)
880-44904-1	S-1 (0-3")	93	88
880-44904-2	S-1 (6")	86	104
880-44904-2 MS	S-1 (6")	111	98
880-44904-2 MSD	S-1 (6")	118	96
880-44904-3	S-1 (1')	121	108
880-44904-4	S-1 (1.5')	129	116
880-44904-5	S-2 (0-3")	114	108
880-44904-6	S-2 (6")	119	110
880-44904-7	S-2 (1')	123	119
880-44904-8	S-2 (1.5')	118	102
880-44904-9	S-3 (0-3")	120	104
880-44904-10	S-3 (6")	120	112
880-44904-11	S-3 (1')	93	95
880-44904-12	S-3 (1.5')	119	110
LCS 880-83496/1-A	Lab Control Sample	105	104
LCSD 880-83496/2-A	Lab Control Sample Dup	110	100
MB 880-83496/5-A	Method Blank	189 S1+	137 S1+

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-44849-A-51-F MS	Matrix Spike	95	96
880-44849-A-51-G MSD	Matrix Spike Duplicate	112	113
880-44904-1	S-1 (0-3")	99	92
880-44904-2	S-1 (6")	90	90
880-44904-3	S-1 (1')	91	93
880-44904-4	S-1 (1.5')	94	97
880-44904-5	S-2 (0-3")	117	127
880-44904-6	S-2 (6")	107	111
880-44904-7	S-2 (1')	80	88
880-44904-8	S-2 (1.5')	105	116
880-44904-9	S-3 (0-3")	106	113
880-44904-10	S-3 (6")	95	103
880-44904-11	S-3 (1')	106	112
880-44904-12	S-3 (1.5')	110	118
LCS 880-83483/2-A	Lab Control Sample	93	95
LCSD 880-83483/3-A	Lab Control Sample Dup	82	84
MB 880-83483/1-A	Method Blank	91	98

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-83496/5-A
Matrix: Solid
Analysis Batch: 83538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83496

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/18/24 16:09	06/19/24 12:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/18/24 16:09	06/19/24 12:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/18/24 16:09	06/19/24 12:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/18/24 16:09	06/19/24 12:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/18/24 16:09	06/19/24 12:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/18/24 16:09	06/19/24 12:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*189*	*S1+*	*70 - 130*	*06/18/24 16:09*	*06/19/24 12:18*	*1*
1,4-Difluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*06/18/24 16:09*	*06/19/24 12:18*	*1*

Lab Sample ID: LCS 880-83496/1-A
Matrix: Solid
Analysis Batch: 83538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83496

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1090		mg/Kg		109	70 - 130		
Toluene			0.100	0.08969		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.1045		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene			0.200	0.2018		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.1048		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-83496/2-A
Matrix: Solid
Analysis Batch: 83538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 83496

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1052		mg/Kg		105	70 - 130	4	35
Toluene			0.100	0.09462		mg/Kg		95	70 - 130	5	35
Ethylbenzene			0.100	0.09930		mg/Kg		99	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2073		mg/Kg		104	70 - 130	3	35
o-Xylene			0.100	0.1088		mg/Kg		109	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-44904-2 MS
Matrix: Solid
Analysis Batch: 83538

Client Sample ID: S-1 (6")
Prep Type: Total/NA
Prep Batch: 83496

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.0996	0.09948		mg/Kg		100	70 - 130		
Toluene	<0.00201	U	0.0996	0.08936		mg/Kg		90	70 - 130		

QC Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44904-2 MS
Matrix: Solid
Analysis Batch: 83538

Client Sample ID: S-1 (6")
Prep Type: Total/NA
Prep Batch: 83496

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0996	0.08699		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1705		mg/Kg		86	70 - 130
o-Xylene	<0.00201	U	0.0996	0.09645		mg/Kg		97	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-44904-2 MSD
Matrix: Solid
Analysis Batch: 83538

Client Sample ID: S-1 (6")
Prep Type: Total/NA
Prep Batch: 83496

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.101	0.09714		mg/Kg		96	70 - 130	2	35
Toluene	<0.00201	U	0.101	0.08685		mg/Kg		86	70 - 130	3	35
Ethylbenzene	<0.00201	U	0.101	0.08408		mg/Kg		83	70 - 130	3	35
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1642		mg/Kg		81	70 - 130	4	35
o-Xylene	<0.00201	U	0.101	0.09457		mg/Kg		94	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

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

Lab Sample ID: MB 880-83483/1-A
Matrix: Solid
Analysis Batch: 83526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83483

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		06/18/24 15:38	06/19/24 08:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/18/24 15:38	06/19/24 08:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/18/24 15:38	06/19/24 08:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*06/18/24 15:38*	*06/19/24 08:17*	*1*
o-Terphenyl	*98*		*70 - 130*	*06/18/24 15:38*	*06/19/24 08:17*	*1*

Lab Sample ID: LCS 880-83483/2-A
Matrix: Solid
Analysis Batch: 83526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	913.9		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	940.9		mg/Kg		94	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-83483/2-A
Matrix: Solid
Analysis Batch: 83526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83483

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-83483/3-A
Matrix: Solid
Analysis Batch: 83526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 83483

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	843.0		mg/Kg		84	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	816.6		mg/Kg		82	70 - 130	14	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: 880-44849-A-51-F MS
Matrix: Solid
Analysis Batch: 83526

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 83483

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 F2	997	968.7		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	555.4	F1	mg/Kg		56	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 880-44849-A-51-G MSD
Matrix: Solid
Analysis Batch: 83526

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 83483

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 F2	997	1231	F2	mg/Kg		122	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	660.8	F1	mg/Kg		66	70 - 130	17	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	113		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-83484/1-A
Matrix: Solid
Analysis Batch: 83501

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			06/19/24 06:38	1

Lab Sample ID: LCS 880-83484/2-A
Matrix: Solid
Analysis Batch: 83501

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	258.6		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-83484/3-A
Matrix: Solid
Analysis Batch: 83501

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	258.7		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-44899-A-1-F MS
Matrix: Solid
Analysis Batch: 83501

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	41.6	F1	251	261.6	F1	mg/Kg		88	90 - 110		

Lab Sample ID: 880-44899-A-1-G MSD
Matrix: Solid
Analysis Batch: 83501

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	41.6	F1	251	276.9		mg/Kg		94	90 - 110	6	20

Lab Sample ID: 880-44904-5 MS
Matrix: Solid
Analysis Batch: 83501

Client Sample ID: S-2 (0-3")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	725	F1	1250	2301	F1	mg/Kg		126	90 - 110		

Lab Sample ID: 880-44904-5 MSD
Matrix: Solid
Analysis Batch: 83501

Client Sample ID: S-2 (0-3")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	725	F1	1250	1880		mg/Kg		92	90 - 110	20	20

QC Association Summary

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 83496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44904-1	S-1 (0-3")	Total/NA	Solid	5035	
880-44904-2	S-1 (6")	Total/NA	Solid	5035	
880-44904-3	S-1 (1')	Total/NA	Solid	5035	
880-44904-4	S-1 (1.5')	Total/NA	Solid	5035	
880-44904-5	S-2 (0-3")	Total/NA	Solid	5035	
880-44904-6	S-2 (6")	Total/NA	Solid	5035	
880-44904-7	S-2 (1')	Total/NA	Solid	5035	
880-44904-8	S-2 (1.5')	Total/NA	Solid	5035	
880-44904-9	S-3 (0-3")	Total/NA	Solid	5035	
880-44904-10	S-3 (6")	Total/NA	Solid	5035	
880-44904-11	S-3 (1')	Total/NA	Solid	5035	
880-44904-12	S-3 (1.5')	Total/NA	Solid	5035	
MB 880-83496/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-83496/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-83496/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-44904-2 MS	S-1 (6")	Total/NA	Solid	5035	
880-44904-2 MSD	S-1 (6")	Total/NA	Solid	5035	

Analysis Batch: 83538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44904-1	S-1 (0-3")	Total/NA	Solid	8021B	83496
880-44904-2	S-1 (6")	Total/NA	Solid	8021B	83496
880-44904-3	S-1 (1')	Total/NA	Solid	8021B	83496
880-44904-4	S-1 (1.5')	Total/NA	Solid	8021B	83496
880-44904-5	S-2 (0-3")	Total/NA	Solid	8021B	83496
880-44904-6	S-2 (6")	Total/NA	Solid	8021B	83496
880-44904-7	S-2 (1')	Total/NA	Solid	8021B	83496
880-44904-8	S-2 (1.5')	Total/NA	Solid	8021B	83496
880-44904-9	S-3 (0-3")	Total/NA	Solid	8021B	83496
880-44904-10	S-3 (6")	Total/NA	Solid	8021B	83496
880-44904-11	S-3 (1')	Total/NA	Solid	8021B	83496
880-44904-12	S-3 (1.5')	Total/NA	Solid	8021B	83496
MB 880-83496/5-A	Method Blank	Total/NA	Solid	8021B	83496
LCS 880-83496/1-A	Lab Control Sample	Total/NA	Solid	8021B	83496
LCSD 880-83496/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	83496
880-44904-2 MS	S-1 (6")	Total/NA	Solid	8021B	83496
880-44904-2 MSD	S-1 (6")	Total/NA	Solid	8021B	83496

Analysis Batch: 83692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44904-1	S-1 (0-3")	Total/NA	Solid	Total BTEX	
880-44904-2	S-1 (6")	Total/NA	Solid	Total BTEX	
880-44904-3	S-1 (1')	Total/NA	Solid	Total BTEX	
880-44904-4	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-44904-5	S-2 (0-3")	Total/NA	Solid	Total BTEX	
880-44904-6	S-2 (6")	Total/NA	Solid	Total BTEX	
880-44904-7	S-2 (1')	Total/NA	Solid	Total BTEX	
880-44904-8	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-44904-9	S-3 (0-3")	Total/NA	Solid	Total BTEX	
880-44904-10	S-3 (6")	Total/NA	Solid	Total BTEX	
880-44904-11	S-3 (1')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 83692 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44904-12	S-3 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 83483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44904-1	S-1 (0-3")	Total/NA	Solid	8015NM Prep	
880-44904-2	S-1 (6")	Total/NA	Solid	8015NM Prep	
880-44904-3	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-44904-4	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-44904-5	S-2 (0-3")	Total/NA	Solid	8015NM Prep	
880-44904-6	S-2 (6")	Total/NA	Solid	8015NM Prep	
880-44904-7	S-2 (1')	Total/NA	Solid	8015NM Prep	
880-44904-8	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-44904-9	S-3 (0-3")	Total/NA	Solid	8015NM Prep	
880-44904-10	S-3 (6")	Total/NA	Solid	8015NM Prep	
880-44904-11	S-3 (1')	Total/NA	Solid	8015NM Prep	
880-44904-12	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-83483/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-83483/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-83483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-44849-A-51-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-44849-A-51-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 83526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44904-1	S-1 (0-3")	Total/NA	Solid	8015B NM	83483
880-44904-2	S-1 (6")	Total/NA	Solid	8015B NM	83483
880-44904-3	S-1 (1')	Total/NA	Solid	8015B NM	83483
880-44904-4	S-1 (1.5')	Total/NA	Solid	8015B NM	83483
880-44904-5	S-2 (0-3")	Total/NA	Solid	8015B NM	83483
880-44904-6	S-2 (6")	Total/NA	Solid	8015B NM	83483
880-44904-7	S-2 (1')	Total/NA	Solid	8015B NM	83483
880-44904-8	S-2 (1.5')	Total/NA	Solid	8015B NM	83483
880-44904-9	S-3 (0-3")	Total/NA	Solid	8015B NM	83483
880-44904-10	S-3 (6")	Total/NA	Solid	8015B NM	83483
880-44904-11	S-3 (1')	Total/NA	Solid	8015B NM	83483
880-44904-12	S-3 (1.5')	Total/NA	Solid	8015B NM	83483
MB 880-83483/1-A	Method Blank	Total/NA	Solid	8015B NM	83483
LCS 880-83483/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	83483
LCSD 880-83483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	83483
880-44849-A-51-F MS	Matrix Spike	Total/NA	Solid	8015B NM	83483
880-44849-A-51-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	83483

Analysis Batch: 83678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44904-1	S-1 (0-3")	Total/NA	Solid	8015 NM	
880-44904-2	S-1 (6")	Total/NA	Solid	8015 NM	
880-44904-3	S-1 (1')	Total/NA	Solid	8015 NM	
880-44904-4	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-44904-5	S-2 (0-3")	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 83678 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44904-6	S-2 (6")	Total/NA	Solid	8015 NM	
880-44904-7	S-2 (1')	Total/NA	Solid	8015 NM	
880-44904-8	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-44904-9	S-3 (0-3")	Total/NA	Solid	8015 NM	
880-44904-10	S-3 (6")	Total/NA	Solid	8015 NM	
880-44904-11	S-3 (1')	Total/NA	Solid	8015 NM	
880-44904-12	S-3 (1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 83484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44904-1	S-1 (0-3")	Soluble	Solid	DI Leach	
880-44904-2	S-1 (6")	Soluble	Solid	DI Leach	
880-44904-3	S-1 (1')	Soluble	Solid	DI Leach	
880-44904-4	S-1 (1.5')	Soluble	Solid	DI Leach	
880-44904-5	S-2 (0-3")	Soluble	Solid	DI Leach	
880-44904-6	S-2 (6")	Soluble	Solid	DI Leach	
880-44904-7	S-2 (1')	Soluble	Solid	DI Leach	
880-44904-8	S-2 (1.5')	Soluble	Solid	DI Leach	
880-44904-9	S-3 (0-3")	Soluble	Solid	DI Leach	
880-44904-10	S-3 (6")	Soluble	Solid	DI Leach	
880-44904-11	S-3 (1')	Soluble	Solid	DI Leach	
880-44904-12	S-3 (1.5')	Soluble	Solid	DI Leach	
MB 880-83484/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-83484/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-83484/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-44899-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-44899-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-44904-5 MS	S-2 (0-3")	Soluble	Solid	DI Leach	
880-44904-5 MSD	S-2 (0-3")	Soluble	Solid	DI Leach	

Analysis Batch: 83501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44904-1	S-1 (0-3")	Soluble	Solid	300.0	83484
880-44904-2	S-1 (6")	Soluble	Solid	300.0	83484
880-44904-3	S-1 (1')	Soluble	Solid	300.0	83484
880-44904-4	S-1 (1.5')	Soluble	Solid	300.0	83484
880-44904-5	S-2 (0-3")	Soluble	Solid	300.0	83484
880-44904-6	S-2 (6")	Soluble	Solid	300.0	83484
880-44904-7	S-2 (1')	Soluble	Solid	300.0	83484
880-44904-8	S-2 (1.5')	Soluble	Solid	300.0	83484
880-44904-9	S-3 (0-3")	Soluble	Solid	300.0	83484
880-44904-10	S-3 (6")	Soluble	Solid	300.0	83484
880-44904-11	S-3 (1')	Soluble	Solid	300.0	83484
880-44904-12	S-3 (1.5')	Soluble	Solid	300.0	83484
MB 880-83484/1-A	Method Blank	Soluble	Solid	300.0	83484
LCS 880-83484/2-A	Lab Control Sample	Soluble	Solid	300.0	83484
LCSD 880-83484/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	83484
880-44899-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	83484
880-44899-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	83484

QC Association Summary

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 83501 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44904-5 MS	S-2 (0-3")	Soluble	Solid	300.0	83484
880-44904-5 MSD	S-2 (0-3")	Soluble	Solid	300.0	83484

Lab Chronicle

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44904-1
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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	83496	06/18/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	83538	06/19/24 15:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83692	06/19/24 15:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			83678	06/19/24 13:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83483	06/18/24 15:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83526	06/19/24 13:42	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	83484	06/18/24 15:41	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	83501	06/19/24 08:01	SMC	EET MID

Client Sample ID: S-1 (6")

Lab Sample ID: 880-44904-2
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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	83496	06/18/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83538	06/19/24 12:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83692	06/19/24 12:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			83678	06/19/24 14:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83483	06/18/24 15:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83526	06/19/24 14:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	83484	06/18/24 15:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83501	06/19/24 08:07	SMC	EET MID

Client Sample ID: S-1 (1')

Lab Sample ID: 880-44904-3
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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	83496	06/18/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83538	06/19/24 13:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83692	06/19/24 13:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			83678	06/19/24 14:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	83483	06/18/24 15:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83526	06/19/24 14:22	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	83484	06/18/24 15:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83501	06/19/24 08:13	SMC	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-44904-4
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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	83496	06/18/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83538	06/19/24 13:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83692	06/19/24 13:28	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-44904-4
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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			83678	06/19/24 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	83483	06/18/24 15:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83526	06/19/24 15:03	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	83484	06/18/24 15:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83501	06/19/24 08:19	SMC	EET MID

Client Sample ID: S-2 (0-3")

Lab Sample ID: 880-44904-5
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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	83496	06/18/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83538	06/19/24 13:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83692	06/19/24 13:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			83678	06/19/24 15:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	83483	06/18/24 15:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83526	06/19/24 15:24	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	83484	06/18/24 15:41	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	83501	06/19/24 08:25	SMC	EET MID

Client Sample ID: S-2 (6")

Lab Sample ID: 880-44904-6
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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	83496	06/18/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83538	06/19/24 14:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83692	06/19/24 14:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			83678	06/19/24 15:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	83483	06/18/24 15:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83526	06/19/24 15:44	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	83484	06/18/24 15:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83501	06/19/24 09:00	SMC	EET MID

Client Sample ID: S-2 (1')

Lab Sample ID: 880-44904-7
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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	83496	06/18/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83538	06/19/24 14:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83692	06/19/24 14:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			83678	06/19/24 16:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	83483	06/18/24 15:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83526	06/19/24 16:05	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (1')

Lab Sample ID: 880-44904-7
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	83484	06/18/24 15:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83501	06/19/24 09:06	SMC	EET MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-44904-8
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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	83496	06/18/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83538	06/19/24 14:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83692	06/19/24 14:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			83678	06/19/24 16:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83483	06/18/24 15:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83526	06/19/24 16:25	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	83484	06/18/24 15:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83501	06/19/24 09:24	SMC	EET MID

Client Sample ID: S-3 (0-3")

Lab Sample ID: 880-44904-9
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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	83496	06/18/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83538	06/19/24 15:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83692	06/19/24 15:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			83678	06/19/24 16:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	83483	06/18/24 15:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83526	06/19/24 16:46	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	83484	06/18/24 15:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83501	06/19/24 09:30	SMC	EET MID

Client Sample ID: S-3 (6")

Lab Sample ID: 880-44904-10
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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	83496	06/18/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83538	06/19/24 15:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83692	06/19/24 15:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			83678	06/19/24 17:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83483	06/18/24 15:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83526	06/19/24 17:06	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	83484	06/18/24 15:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83501	06/19/24 09:36	SMC	EET MID

Lab Chronicle

Client: Carmona Resources
Job ID: 880-44904-1
Project/Site: Solution Federal Com 003H (05.11.2024)
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (1')
Lab Sample ID: 880-44904-11
Date Collected: 06/17/24 00:00
Matrix: Solid
Date Received: 06/18/24 13:50

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	83496	06/18/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83538	06/19/24 17:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83692	06/19/24 17:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			83678	06/19/24 17:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	83483	06/18/24 15:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83526	06/19/24 17:27	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	83484	06/18/24 15:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83501	06/19/24 09:41	SMC	EET MID

Client Sample ID: S-3 (1.5')
Lab Sample ID: 880-44904-12
Date Collected: 06/17/24 00:00
Matrix: Solid
Date Received: 06/18/24 13:50

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	83496	06/18/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83538	06/19/24 18:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83692	06/19/24 18:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			83678	06/19/24 17:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	83483	06/18/24 15:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83526	06/19/24 17:47	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	83484	06/18/24 15:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83501	06/19/24 09:47	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Job ID: 880-44904-1
Project/Site: Solution Federal Com 003H (05.11.2024)
SDG: Eddy 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	06-30-24

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

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

Method Summary

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44904-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-44904-1	S-1 (0-3")	Solid	06/17/24 00:00	06/18/24 13:50
880-44904-2	S-1 (6")	Solid	06/17/24 00:00	06/18/24 13:50
880-44904-3	S-1 (1')	Solid	06/17/24 00:00	06/18/24 13:50
880-44904-4	S-1 (1.5')	Solid	06/17/24 00:00	06/18/24 13:50
880-44904-5	S-2 (0-3")	Solid	06/17/24 00:00	06/18/24 13:50
880-44904-6	S-2 (6")	Solid	06/17/24 00:00	06/18/24 13:50
880-44904-7	S-2 (1')	Solid	06/17/24 00:00	06/18/24 13:50
880-44904-8	S-2 (1.5')	Solid	06/17/24 00:00	06/18/24 13:50
880-44904-9	S-3 (0-3")	Solid	06/17/24 00:00	06/18/24 13:50
880-44904-10	S-3 (6")	Solid	06/17/24 00:00	06/18/24 13:50
880-44904-11	S-3 (1')	Solid	06/17/24 00:00	06/18/24 13:50
880-44904-12	S-3 (1.5')	Solid	06/17/24 00:00	06/18/24 13:50

Chain of Custody

W

880-44904 Chain of Custody

6/20/2024

Page ___1___ of __2___

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

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Solution Federal Com 003H (05.11.2024)	Turn Around	
Project Number:	2406	☐ Routine ☑ Rush	
Project Location	Eddy County, New Mexico	Due Date:	72 HR
Sampler's Name:	JM		
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:	-1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.3
Total Containers:		Corrected Temperature:	3.2

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	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
S-1 (0-3")	6/17/2024		X		G	1	X	X	X	
S-1 (6")	6/17/2024		X		G	1	X	X	X	
S-1 (1')	6/17/2024		X		G	1	X	X	X	
S-1 (1.5')	6/17/2024		X		G	1	X	X	X	
S-2 (0-3")	6/17/2024		X		G	1	X	X	X	
S-2 (6")	6/17/2024		X		G	1	X	X	X	
S-2 (1')	6/17/2024		X		G	1	X	X	X	
S-2 (1.5')	6/17/2024		X		G	1	X	X	X	
S-3 (0-3")	6/17/2024		X		G	1	X	X	X	
S-3 (6")	6/17/2024		X		G	1	X	X	X	

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	6/18/24@13:50		06/18/24 1350

Chain of Custody

Work Order No: 449104

Page 2 of 2

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

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Solution Federal Com 003H (05.11.2024)	Turn Around		Pres. Code	
Project Number:	2406	☐ Routine	☑ Rush		
Project Location	Eddy County, New Mexico	Due Date:	72 HR		
Sampler's Name:	JM				
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_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	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
S-3 (1')	6/17/2024		X		G	1	X	X	X	
S-3 (1.5')	6/17/2024		X		G	1	X	X	X	

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Isaac Ramos	6/18/24 13:50		6/18/24 1350

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-44904-1
SDG Number: Eddy County, New Mexico

Login Number: 44904
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/21/2024 1:29:46 PM

JOB DESCRIPTION

Solution Federal Com 003H (05.11.2024)
Eddy County, New Mexico

JOB NUMBER

880-44899-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

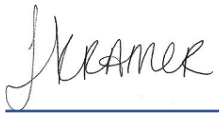
Eurofins Midland

Job Notes

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

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

Authorization



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6/21/2024 1:29:46 PM

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

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Definitions/Glossary

Client: Carmona Resources Job ID: 880-44899-1
Project/Site: Solution Federal Com 003H (05.11.2024) SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources Job ID: 880-44899-1
Project: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44899-1 Eurofins Midland

Job Narrative
880-44899-1

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

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

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

Receipt
The samples were received on 6/18/2024 1:50 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 5.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-44899-1), H-2 (0-0.5') (880-44899-2), H-3 (0-0.5') (880-44899-3), H-4 (0-0.5') (880-44899-4), H-5 (0-0.5') (880-44899-5) and H-6 (0-0.5') (880-44899-6).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-83482 and analytical batch 880-83414 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-83482 and analytical batch 880-83414 was outside the upper control limits.

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

Diesel Range Organics
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-83483 and analytical batch 880-83526 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The following samples required confirmation (CON) due to a an interference affecting Chloride : H-1 (0-0.5') (880-44899-1), (880-44899-A-1-F MS) and (880-44899-A-1-G MSD).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike (MS) recoveries for preparation batch 880-83484 and analytical batch 880-83501 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. H-1 (0-0.5') (880-44899-1), H-2 (0-0.5') (880-44899-2), H-3 (0-0.5') (880-44899-3), H-4 (0-0.5') (880-44899-4), H-5 (0-0.5') (880-44899-5), H-6 (0-0.5') (880-44899-6) and (880-44899-A-1-F MS)

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: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44899-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44899-1
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199		mg/Kg		06/18/24 14:59	06/18/24 18:15	1
Toluene	<0.00199	U F1 F2	0.00199		mg/Kg		06/18/24 14:59	06/18/24 18:15	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		06/18/24 14:59	06/18/24 18:15	1
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.00398		mg/Kg		06/18/24 14:59	06/18/24 18:15	1
o-Xylene	<0.00199	U F1 F2	0.00199		mg/Kg		06/18/24 14:59	06/18/24 18:15	1
Xylenes, Total	<0.00398	U F1 F2	0.00398		mg/Kg		06/18/24 14:59	06/18/24 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/18/24 14:59*	*06/18/24 18:15*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/18/24 14:59*	*06/18/24 18:15*	*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			06/18/24 18:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/19/24 11:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 11:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 11:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 11:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*06/18/24 15:38*	*06/19/24 11:40*	*1*
o-Terphenyl	*99*		*70 - 130*	*06/18/24 15:38*	*06/19/24 11:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**41.6**	**F1**	5.01		mg/Kg			06/19/24 13:22	1

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

Lab Sample ID: 880-44899-2
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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		06/18/24 14:59	06/18/24 18:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/18/24 14:59	06/18/24 18:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/18/24 14:59	06/18/24 18:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/18/24 14:59	06/18/24 18:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/18/24 14:59	06/18/24 18:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/18/24 14:59	06/18/24 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/18/24 14:59*	*06/18/24 18:42*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*06/18/24 14:59*	*06/18/24 18:42*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44899-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44899-2
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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			06/18/24 18:42	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			06/19/24 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 12:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 12:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*06/18/24 15:38*	*06/19/24 12:00*	*1*
o-Terphenyl	*100*		*70 - 130*	*06/18/24 15:38*	*06/19/24 12:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.0**		5.03		mg/Kg			06/19/24 07:20	1

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

Lab Sample ID: 880-44899-3
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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		06/18/24 14:59	06/18/24 19:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/18/24 14:59	06/18/24 19:09	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/18/24 14:59	06/18/24 19:09	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/18/24 14:59	06/18/24 19:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/18/24 14:59	06/18/24 19:09	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/18/24 14:59	06/18/24 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*06/18/24 14:59*	*06/18/24 19:09*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*06/18/24 14:59*	*06/18/24 19:09*	*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			06/18/24 19:09	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			06/19/24 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/18/24 15:38	06/19/24 12:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/18/24 15:38	06/19/24 12:20	1

Client Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44899-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44899-3
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/18/24 15:38	06/19/24 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*06/18/24 15:38*	*06/19/24 12:20*	*1*
o-Terphenyl	*102*		*70 - 130*	*06/18/24 15:38*	*06/19/24 12:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40.7**		4.99		mg/Kg			06/19/24 07:26	1

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

Lab Sample ID: 880-44899-4
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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		06/18/24 14:59	06/18/24 19:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/18/24 14:59	06/18/24 19:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/18/24 14:59	06/18/24 19:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/18/24 14:59	06/18/24 19:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/18/24 14:59	06/18/24 19:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/18/24 14:59	06/18/24 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*06/18/24 14:59*	*06/18/24 19:36*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*06/18/24 14:59*	*06/18/24 19:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/18/24 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/19/24 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/18/24 15:38	06/19/24 12:41	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/18/24 15:38	06/19/24 12:41	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/18/24 15:38	06/19/24 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*06/18/24 15:38*	*06/19/24 12:41*	*1*
o-Terphenyl	*113*		*70 - 130*	*06/18/24 15:38*	*06/19/24 12:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.0**		4.95		mg/Kg			06/19/24 07:32	1

Client Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44899-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44899-5
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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		06/18/24 14:59	06/18/24 20:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/18/24 14:59	06/18/24 20:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/18/24 14:59	06/18/24 20:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/18/24 14:59	06/18/24 20:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/18/24 14:59	06/18/24 20:03	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/18/24 14:59	06/18/24 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/18/24 14:59*	*06/18/24 20:03*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/18/24 14:59*	*06/18/24 20:03*	*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			06/18/24 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/19/24 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/18/24 15:38	06/19/24 13:01	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/18/24 15:38	06/19/24 13:01	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/18/24 15:38	06/19/24 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*06/18/24 15:38*	*06/19/24 13:01*	*1*
o-Terphenyl	*114*		*70 - 130*	*06/18/24 15:38*	*06/19/24 13:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.3**		5.02		mg/Kg			06/19/24 07:38	1

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

Lab Sample ID: 880-44899-6
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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		06/18/24 14:59	06/18/24 20:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/18/24 14:59	06/18/24 20:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/18/24 14:59	06/18/24 20:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/18/24 14:59	06/18/24 20:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/18/24 14:59	06/18/24 20:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/18/24 14:59	06/18/24 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/18/24 14:59*	*06/18/24 20:30*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/18/24 14:59*	*06/18/24 20:30*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44899-1
SDG: Eddy County, New Mexico

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

Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

Lab Sample ID: 880-44899-6

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			06/18/24 20:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/19/24 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 13:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 13:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/18/24 15:38	06/19/24 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*06/18/24 15:38*	*06/19/24 13:21*	*1*
o-Terphenyl	*88*		*70 - 130*	*06/18/24 15:38*	*06/19/24 13:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.1**		5.04		mg/Kg			06/19/24 07:55	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44899-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
880-44899-1	H-1 (0-0.5')	100	95
880-44899-1 MS	H-1 (0-0.5')	79	104
880-44899-1 MSD	H-1 (0-0.5')	102	103
880-44899-2	H-2 (0-0.5')	100	108
880-44899-3	H-3 (0-0.5')	111	112
880-44899-4	H-4 (0-0.5')	115	109
880-44899-5	H-5 (0-0.5')	104	91
880-44899-6	H-6 (0-0.5')	107	102
LCS 880-83482/1-A	Lab Control Sample	103	95
LCSD 880-83482/2-A	Lab Control Sample Dup	97	103
MB 880-83482/5-A	Method Blank	65 S1-	103

Surrogate Legend

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

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

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
880-44849-A-51-F MS	Matrix Spike	95	96
880-44849-A-51-G MSD	Matrix Spike Duplicate	112	113
880-44899-1	H-1 (0-0.5')	92	99
880-44899-2	H-2 (0-0.5')	94	100
880-44899-3	H-3 (0-0.5')	99	102
880-44899-4	H-4 (0-0.5')	110	113
880-44899-5	H-5 (0-0.5')	109	114
880-44899-6	H-6 (0-0.5')	83	88
LCS 880-83483/2-A	Lab Control Sample	93	95
LCSD 880-83483/3-A	Lab Control Sample Dup	82	84
MB 880-83483/1-A	Method Blank	91	98

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44899-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-83482/5-A
Matrix: Solid
Analysis Batch: 83414

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83482

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/18/24 14:59	06/18/24 17:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/18/24 14:59	06/18/24 17:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/18/24 14:59	06/18/24 17:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/18/24 14:59	06/18/24 17:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/18/24 14:59	06/18/24 17:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/18/24 14:59	06/18/24 17:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*	*06/18/24 14:59*	*06/18/24 17:48*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/18/24 14:59*	*06/18/24 17:48*	*1*

Lab Sample ID: LCS 880-83482/1-A
Matrix: Solid
Analysis Batch: 83414

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83482

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1035		mg/Kg		103	70 - 130		
Toluene			0.100	0.09487		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.09470		mg/Kg		95	70 - 130		
m-Xylene & p-Xylene			0.200	0.1940		mg/Kg		97	70 - 130		
o-Xylene			0.100	0.09848		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-83482/2-A
Matrix: Solid
Analysis Batch: 83414

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 83482

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09568		mg/Kg		96	70 - 130	8	35
Toluene			0.100	0.08722		mg/Kg		87	70 - 130	8	35
Ethylbenzene			0.100	0.08783		mg/Kg		88	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.1794		mg/Kg		90	70 - 130	8	35
o-Xylene			0.100	0.08851		mg/Kg		89	70 - 130	11	35

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

Lab Sample ID: 880-44899-1 MS
Matrix: Solid
Analysis Batch: 83414

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA
Prep Batch: 83482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U F1 F2	0.0996	0.06402	F1	mg/Kg		64	70 - 130		
Toluene	<0.00199	U F1 F2	0.0996	0.05764	F1	mg/Kg		58	70 - 130		

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44899-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44899-1 MS
Matrix: Solid
Analysis Batch: 83414

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA
Prep Batch: 83482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1	0.0996	0.05759	F1	mg/Kg		58	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.199	0.1155	F1	mg/Kg		58	70 - 130
o-Xylene	<0.00199	U F1 F2	0.0996	0.05744	F1	mg/Kg		58	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-44899-1 MSD
Matrix: Solid
Analysis Batch: 83414

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA
Prep Batch: 83482

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 F2	0.101	0.09936	F2	mg/Kg		99	70 - 130	43	35
Toluene	<0.00199	U F1 F2	0.101	0.08716	F2	mg/Kg		86	70 - 130	41	35
Ethylbenzene	<0.00199	U F1	0.101	0.08024		mg/Kg		80	70 - 130	33	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.202	0.01634	F1 F2	mg/Kg		8	70 - 130	150	35
o-Xylene	<0.00199	U F1 F2	0.101	0.08928	F2	mg/Kg		89	70 - 130	43	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

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

Lab Sample ID: MB 880-83483/1-A
Matrix: Solid
Analysis Batch: 83526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83483

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		06/18/24 15:38	06/19/24 08:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/18/24 15:38	06/19/24 08:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/18/24 15:38	06/19/24 08:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*06/18/24 15:38*	*06/19/24 08:17*	*1*
o-Terphenyl	*98*		*70 - 130*	*06/18/24 15:38*	*06/19/24 08:17*	*1*

Lab Sample ID: LCS 880-83483/2-A
Matrix: Solid
Analysis Batch: 83526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	913.9		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	940.9		mg/Kg		94	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44899-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-83483/2-A
Matrix: Solid
Analysis Batch: 83526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83483

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-83483/3-A
Matrix: Solid
Analysis Batch: 83526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 83483

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	843.0		mg/Kg		84	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	816.6		mg/Kg		82	70 - 130	14	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: 880-44849-A-51-F MS
Matrix: Solid
Analysis Batch: 83526

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 83483

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 F2	997	968.7		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	555.4	F1	mg/Kg		56	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 880-44849-A-51-G MSD
Matrix: Solid
Analysis Batch: 83526

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 83483

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 F2	997	1231	F2	mg/Kg		122	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	660.8	F1	mg/Kg		66	70 - 130	17	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	113		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44899-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-83484/1-A
Matrix: Solid
Analysis Batch: 83501

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			06/19/24 06:38	1

Lab Sample ID: LCS 880-83484/2-A
Matrix: Solid
Analysis Batch: 83501

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	258.6		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-83484/3-A
Matrix: Solid
Analysis Batch: 83501

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	258.7		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-44899-1 MS
Matrix: Solid
Analysis Batch: 83501

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	41.6	F1	251	261.6	F1	mg/Kg		88	90 - 110		

Lab Sample ID: 880-44899-1 MSD
Matrix: Solid
Analysis Batch: 83501

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	41.6	F1	251	276.9		mg/Kg		94	90 - 110	6	20

QC Association Summary

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44899-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 83414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44899-1	H-1 (0-0.5')	Total/NA	Solid	8021B	83482
880-44899-2	H-2 (0-0.5')	Total/NA	Solid	8021B	83482
880-44899-3	H-3 (0-0.5')	Total/NA	Solid	8021B	83482
880-44899-4	H-4 (0-0.5')	Total/NA	Solid	8021B	83482
880-44899-5	H-5 (0-0.5')	Total/NA	Solid	8021B	83482
880-44899-6	H-6 (0-0.5')	Total/NA	Solid	8021B	83482
MB 880-83482/5-A	Method Blank	Total/NA	Solid	8021B	83482
LCS 880-83482/1-A	Lab Control Sample	Total/NA	Solid	8021B	83482
LCSD 880-83482/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	83482
880-44899-1 MS	H-1 (0-0.5')	Total/NA	Solid	8021B	83482
880-44899-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8021B	83482

Prep Batch: 83482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44899-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-44899-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-44899-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-44899-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-44899-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-44899-6	H-6 (0-0.5')	Total/NA	Solid	5035	
MB 880-83482/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-83482/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-83482/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-44899-1 MS	H-1 (0-0.5')	Total/NA	Solid	5035	
880-44899-1 MSD	H-1 (0-0.5')	Total/NA	Solid	5035	

Analysis Batch: 83847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44899-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44899-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44899-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44899-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44899-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44899-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 83483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44899-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44899-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44899-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44899-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44899-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44899-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-83483/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-83483/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-83483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-44849-A-51-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-44849-A-51-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44899-1
SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 83526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44899-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	83483
880-44899-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	83483
880-44899-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	83483
880-44899-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	83483
880-44899-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	83483
880-44899-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	83483
MB 880-83483/1-A	Method Blank	Total/NA	Solid	8015B NM	83483
LCS 880-83483/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	83483
LCSD 880-83483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	83483
880-44849-A-51-F MS	Matrix Spike	Total/NA	Solid	8015B NM	83483
880-44849-A-51-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	83483

Analysis Batch: 83677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44899-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-44899-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-44899-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-44899-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-44899-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-44899-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 83484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44899-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-44899-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-44899-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-44899-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-44899-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-44899-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-83484/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-83484/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-83484/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-44899-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-44899-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 83501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44899-1	H-1 (0-0.5')	Soluble	Solid	300.0	83484
880-44899-2	H-2 (0-0.5')	Soluble	Solid	300.0	83484
880-44899-3	H-3 (0-0.5')	Soluble	Solid	300.0	83484
880-44899-4	H-4 (0-0.5')	Soluble	Solid	300.0	83484
880-44899-5	H-5 (0-0.5')	Soluble	Solid	300.0	83484
880-44899-6	H-6 (0-0.5')	Soluble	Solid	300.0	83484
MB 880-83484/1-A	Method Blank	Soluble	Solid	300.0	83484
LCS 880-83484/2-A	Lab Control Sample	Soluble	Solid	300.0	83484
LCSD 880-83484/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	83484
880-44899-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	83484
880-44899-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	83484

Lab Chronicle

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44899-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44899-1
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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	83482	06/18/24 14:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83414	06/18/24 18:15	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			83847	06/18/24 18:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			83677	06/19/24 11:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	83483	06/18/24 15:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83526	06/19/24 11:40	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	83484	06/18/24 15:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83501	06/19/24 13:22	SMC	EET MID

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

Lab Sample ID: 880-44899-2
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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	83482	06/18/24 14:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83414	06/18/24 18:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			83847	06/18/24 18:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			83677	06/19/24 12:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83483	06/18/24 15:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83526	06/19/24 12:00	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	83484	06/18/24 15:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83501	06/19/24 07:20	SMC	EET MID

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

Lab Sample ID: 880-44899-3
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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	83482	06/18/24 14:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83414	06/18/24 19:09	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			83847	06/18/24 19:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			83677	06/19/24 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83483	06/18/24 15:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83526	06/19/24 12:20	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	83484	06/18/24 15:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83501	06/19/24 07:26	SMC	EET MID

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

Lab Sample ID: 880-44899-4
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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	83482	06/18/24 14:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83414	06/18/24 19:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			83847	06/18/24 19:36	AJ	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Solution Federal Com 003H (05.11.2024)

Job ID: 880-44899-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44899-4
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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			83677	06/19/24 12:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	83483	06/18/24 15:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83526	06/19/24 12:41	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	83484	06/18/24 15:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83501	06/19/24 07:32	SMC	EET MID

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

Lab Sample ID: 880-44899-5
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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	83482	06/18/24 14:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83414	06/18/24 20:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			83847	06/18/24 20:03	AJ	EET MID
Total/NA	Analysis	8015 NM		1			83677	06/19/24 13:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	83483	06/18/24 15:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83526	06/19/24 13:01	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	83484	06/18/24 15:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83501	06/19/24 07:38	SMC	EET MID

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

Lab Sample ID: 880-44899-6
Matrix: Solid
Date Collected: 06/17/24 00:00
Date Received: 06/18/24 13:50

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	83482	06/18/24 14:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83414	06/18/24 20:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			83847	06/18/24 20:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			83677	06/19/24 13:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83483	06/18/24 15:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83526	06/19/24 13:21	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	83484	06/18/24 15:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83501	06/19/24 07:55	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Job ID: 880-44899-1
Project/Site: Solution Federal Com 003H (05.11.2024)
SDG: Eddy 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	06-30-24

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

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

Method Summary

Client: Carmona Resources
Job ID: 880-44899-1
Project/Site: Solution Federal Com 003H (05.11.2024)
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Job ID: 880-44899-1
Project/Site: Solution Federal Com 003H (05.11.2024)
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-44899-1	H-1 (0-0.5')	Solid	06/17/24 00:00	06/18/24 13:50
880-44899-2	H-2 (0-0.5')	Solid	06/17/24 00:00	06/18/24 13:50
880-44899-3	H-3 (0-0.5')	Solid	06/17/24 00:00	06/18/24 13:50
880-44899-4	H-4 (0-0.5')	Solid	06/17/24 00:00	06/18/24 13:50
880-44899-5	H-5 (0-0.5')	Solid	06/17/24 00:00	06/18/24 13:50
880-44899-6	H-6 (0-0.5')	Solid	06/17/24 00:00	06/18/24 13:50

Chain of Custody

880-44899 Chain of Custody

6/21/2024

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

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Solution Federal Com 003H (05.11.2024)	Turn Around	
Project Number:	2406	☐ Routine ☑ Rush	
Project Location	Eddy County, New Mexico	Due Date:	72 HR
Sampler's Name:	JM		
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:	-.1
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.3
Total Containers:		Corrected Temperature:	5.2

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0
H-1 (0-0.5')	6/17/2024		X		G	1			X	X	X
H-2 (0-0.5')	6/17/2024		X		G	1			X	X	X
H-3 (0-0.5')	6/17/2024		X		G	1			X	X	X
H-4 (0-0.5')	6/17/2024		X		G	1			X	X	X
H-5 (0-0.5')	6/17/2024		X		G	1			X	X	X
H-6 (0-0.5')	6/17/2024		X		G	1			X	X	X

Preservative Codes

None: NO — DI Water: H_2O

Cool: Cool — MeOH: Me

HCL: HC — HNO_3: HN

H_2S0_4: H_2 — NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Sample Comments

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	6/18/24@13:50		6/18/24 1350

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-44899-1
SDG Number: Eddy County, New Mexico

Login Number: 44899
List Number: 1
Creator: Vasquez, Julisa

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	

CARDINAL Laboratories

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

July 15, 2024

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: SOLUTION FEDERAL COM 003H (05.11.2024)

Enclosed are the results of analyses for samples received by the laboratory on 07/12/24 15:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
CONNER MOEHRING
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: CS - 1 (2') (H244177-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	1.98	98.9	2.00	0.0164	
Toluene*	<0.050	0.050	07/12/2024	ND	1.97	98.6	2.00	0.806	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	1.68	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.15	103	6.00	1.82	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/15/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane *86.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *80.7 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
CONNER MOEHRING
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: CS - 2 (2') (H244177-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	1.98	98.9	2.00	0.0164	
Toluene*	<0.050	0.050	07/12/2024	ND	1.97	98.6	2.00	0.806	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	1.68	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.15	103	6.00	1.82	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/15/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane *93.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *88.1 %* *49.1-148*

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CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
CONNER MOEHRING
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: CS - 3 (2') (H244177-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	1.98	98.9	2.00	0.0164	
Toluene*	<0.050	0.050	07/12/2024	ND	1.97	98.6	2.00	0.806	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	1.68	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.15	103	6.00	1.82	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/15/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane *93.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *87.4 %* *49.1-148*

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Analytical Results For:

CARMONA RESOURCES
CONNER MOEHRING
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: CS - 4 (2') (H244177-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	1.98	98.9	2.00	0.0164	
Toluene*	<0.050	0.050	07/12/2024	ND	1.97	98.6	2.00	0.806	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	1.68	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.15	103	6.00	1.82	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/15/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane *90.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *83.8 %* *49.1-148*

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Analytical Results For:

CARMONA RESOURCES
CONNER MOEHRING
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: CS - 5 (2') (H244177-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	1.98	98.9	2.00	0.0164	
Toluene*	<0.050	0.050	07/12/2024	ND	1.97	98.6	2.00	0.806	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	1.68	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.15	103	6.00	1.82	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/15/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane *96.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *89.1 %* *49.1-148*

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Analytical Results For:

CARMONA RESOURCES
CONNER MOEHRING
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: CS - 6 (2') (H244177-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	1.98	98.9	2.00	0.0164	
Toluene*	<0.050	0.050	07/12/2024	ND	1.97	98.6	2.00	0.806	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	1.68	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.15	103	6.00	1.82	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane *91.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *85.1 %* *49.1-148*

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Analytical Results For:

CARMONA RESOURCES
CONNER MOEHRING
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: CS - 7 (0.5') (H244177-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	2.24	112	2.00	0.879	
Toluene*	<0.050	0.050	07/12/2024	ND	2.34	117	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.52	126	2.00	2.28	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.75	129	6.00	2.78	QR-03
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane *85.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *78.5 %* *49.1-148*

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CARDINAL Laboratories

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Analytical Results For:

CARMONA RESOURCES
CONNER MOEHRING
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: CS - 8 (0.5') (H244177-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	2.24	112	2.00	0.879	
Toluene*	<0.050	0.050	07/12/2024	ND	2.34	117	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.52	126	2.00	2.28	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.75	129	6.00	2.78	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *117 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane *93.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *85.7 %* *49.1-148*

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CARDINAL Laboratories

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Analytical Results For:

CARMONA RESOURCES
CONNER MOEHRING
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: CS - 9 (0.5') (H244177-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	2.24	112	2.00	0.879	
Toluene*	<0.050	0.050	07/12/2024	ND	2.34	117	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.52	126	2.00	2.28	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.75	129	6.00	2.78	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane *100 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *92.5 %* *49.1-148*

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Analytical Results For:

CARMONA RESOURCES
CONNER MOEHRING
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: CS - 10 (0.5') (H244177-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	2.24	112	2.00	0.879	
Toluene*	<0.050	0.050	07/12/2024	ND	2.34	117	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.52	126	2.00	2.28	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.75	129	6.00	2.78	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *122 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane *97.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *89.7 %* *49.1-148*

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Analytical Results For:

CARMONA RESOURCES
CONNER MOEHRING
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: CS - 11 (0.5') (H244177-11)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	2.24	112	2.00	0.879	
Toluene*	<0.050	0.050	07/12/2024	ND	2.34	117	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.52	126	2.00	2.28	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.75	129	6.00	2.78	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *121 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane *81.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *75.0 %* *49.1-148*

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CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
CONNER MOEHRING
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: CS - 12 (0.5') (H244177-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	2.24	112	2.00	0.879	
Toluene*	<0.050	0.050	07/12/2024	ND	2.34	117	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.52	126	2.00	2.28	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.75	129	6.00	2.78	
Total BTEX	<0.300	0.300	07/12/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane *95.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *88.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

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CONNER MOEHRING
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: CS - 13 (0.5') (H244177-13)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	2.24	112	2.00	0.879	
Toluene*	<0.050	0.050	07/12/2024	ND	2.34	117	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.52	126	2.00	2.28	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.75	129	6.00	2.78	
Total BTEX	<0.300	0.300	07/12/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/13/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane *91.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *85.6 %* *49.1-148*

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CONNER MOEHRING
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: SW - 1 (2') (H244177-14)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	2.24	112	2.00	0.879	
Toluene*	<0.050	0.050	07/12/2024	ND	2.34	117	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.52	126	2.00	2.28	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.75	129	6.00	2.78	
Total BTEX	<0.300	0.300	07/12/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	07/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/13/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane *102 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.4 %* *49.1-148*

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CONNER MOEHRING
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MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: SW - 2 (2') (H244177-15)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	2.24	112	2.00	0.879	
Toluene*	<0.050	0.050	07/12/2024	ND	2.34	117	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.52	126	2.00	2.28	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.75	129	6.00	2.78	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *127 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/13/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane *102 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.6 %* *49.1-148*

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Analytical Results For:

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CONNER MOEHRING
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: SW - 3 (2') (H244177-16)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	2.24	112	2.00	0.879	
Toluene*	<0.050	0.050	07/12/2024	ND	2.34	117	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.52	126	2.00	2.28	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.75	129	6.00	2.78	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *127 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/13/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane *97.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *90.7 %* *49.1-148*

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MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: SW - 4 (2') (H244177-17)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	2.24	112	2.00	0.879	
Toluene*	<0.050	0.050	07/12/2024	ND	2.34	117	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.52	126	2.00	2.28	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.75	129	6.00	2.78	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/13/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane *88.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *81.6 %* *49.1-148*

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MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: SW - 5 (1.5') (H244177-18)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	2.24	112	2.00	0.879	
Toluene*	<0.050	0.050	07/12/2024	ND	2.34	117	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.52	126	2.00	2.28	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.75	129	6.00	2.78	
Total BTEX	<0.300	0.300	07/12/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/15/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/13/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane *96.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *88.4 %* *49.1-148*

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Analytical Results For:

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Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: SW - 6 (0.5') (H244177-19)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	2.24	112	2.00	0.879	
Toluene*	<0.050	0.050	07/12/2024	ND	2.34	117	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.52	126	2.00	2.28	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.75	129	6.00	2.78	
Total BTEX	<0.300	0.300	07/12/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/15/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/13/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane *105 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *97.5 %* *49.1-148*

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Fax To:

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Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: SW - 7 (0.5') (H244177-20)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	2.24	112	2.00	0.879	
Toluene*	<0.050	0.050	07/12/2024	ND	2.34	117	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.52	126	2.00	2.28	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.75	129	6.00	2.78	
Total BTEX	<0.300	0.300	07/12/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/15/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2024	ND	194	97.0	200	1.24	
DRO >C10-C28*	<10.0	10.0	07/13/2024	ND	188	93.8	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane *113 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

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Fax To:

Received:	07/12/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: SW - 8 (0.5') (H244177-21)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	2.24	112	2.00	0.879	
Toluene*	<0.050	0.050	07/12/2024	ND	2.34	117	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.52	126	2.00	2.28	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.75	129	6.00	2.78	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *128 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/15/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2024	ND	223	111	200	2.88	
DRO >C10-C28*	<10.0	10.0	07/13/2024	ND	219	110	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane *129 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *132 %* *49.1-148*

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-03	Multiple analyses indicate the percent recovery exceeds the Quality Control acceptance criteria due to a matrix effect.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H244177

Page 1 of 3

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

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Solution Federal Com 003H (05.11.2024)	Turn Around	☐ Routine ☑ Rush
Project Number:	2406	Due Date:	24 HR
Project Location	Eddy County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	140
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	-1.8
Total Containers:		Corrected Temperature:	-1.8

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500
CS-1 (2')	7/11/2024		X		Comp	1		X	X	X
CS-2 (2')	7/11/2024		X		Comp	1		X	X	X
CS-3 (2')	7/11/2024		X		Comp	1		X	X	X
CS-4 (2')	7/11/2024		X		Comp	1		X	X	X
CS-5 (2')	7/11/2024		X		Comp	1		X	X	X
CS-6 (2')	7/11/2024		X		Comp	1		X	X	X
CS-7 (0.5')	7/11/2024		X		Comp	1		X	X	X
CS-8 (0.5')	7/11/2024		X		Comp	1		X	X	X
CS-9 (0.5')	7/11/2024		X		Comp	1		X	X	X
CS-10 (0.5')	7/11/2024		X		Comp	1		X	X	X

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Comments

1 2 3 4 5 6 7 8 9 10

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	7.12.24 1527	Rodriguez	

Chain of Custody

Work Order No: H244177

Page 2 of 3

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

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Solution Federal Com 003H (05.11.2024)	Turn Around	☐ Routine ☑ Rush
Project Number:	2406	Due Date:	24 HR
Project Location	Eddy County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT

Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	140
Cooler Custody Seals:	Yes No N/A	Correction Factor:	1
Sample Custody Seals:	Yes No N/A	Temperature Reading:	-1.8
Total Containers:		Corrected Temperature:	-1.8

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Sample Comments
CS-11 (0.5')	7/11/2024		X		Comp	1		X	X	X	11
CS-12 (0.5')	7/11/2024		X		Comp	1		X	X	X	12
CS-13 (0.5')	7/11/2024		X		Comp	1		X	X	X	13
SW-1 (2')	7/11/2024		X		Comp	1		X	X	X	14
SW-2 (2')	7/11/2024		X		Comp	1		X	X	X	15
SW-3 (2')	7/11/2024		X		Comp	1		X	X	X	16
SW-4 (2')	7/11/2024		X		Comp	1		X	X	X	17
SW-5 (1.5')	7/11/2024		X		Comp	1		X	X	X	18
SW-6 (0.5')	7/11/2024		X		Comp	1		X	X	X	19
SW-7 (0.5')	7/11/2024		X		Comp	1		X	X	X	20

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	7-12-24 1527		

Chain of Custody

Work Order No: H244177

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

Page 3 of 3

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:	Solution Federal Com 003H (05.11.2024)	Turn Around	☐ Routine ☑ Rush
Project Number:	2406	Due Date:	24 HR
Project Location	Eddy County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	140
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-1.8
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_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 4500	Sample Comments
SW-8 (0.5')	7/11/2024		X		Comp	1		X	X	X	21

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	7-12-24 1527		

CARDINAL Laboratories

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

July 15, 2024

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: SOLUTION FEDERAL COM 003H (05.11.2024)

Enclosed are the results of analyses for samples received by the laboratory on 07/12/24 15:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
CONNER MOEHRING
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	07/12/2024	Sampling Date:	07/12/2024
Reported:	07/15/2024	Sampling Type:	Solid
Project Name:	SOLUTION FEDERAL COM 003H (05.11.2	Sampling Condition:	Cool & Intact
Project Number:	2406	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: TWIN WELLS PIT (H244178-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2024	ND	2.24	112	2.00	0.879	
Toluene*	<0.050	0.050	07/13/2024	ND	2.34	117	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/13/2024	ND	2.52	126	2.00	2.28	
Total Xylenes*	<0.150	0.150	07/13/2024	ND	7.75	129	6.00	2.78	
Total BTEX	<0.300	0.300	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *127 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/15/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2024	ND	219	110	200	0.441	
DRO >C10-C28*	<10.0	10.0	07/13/2024	ND	195	97.3	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane *112 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *134 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H244118

Page 1 of 1

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

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Solution Federal Com 003H (05.11.2024)	Turn Around	☐ Routine ☑ Rush
Project Number:	2406	Due Date:	24 HR
Project Location	Eddy County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	140
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	-1.8
Total Containers:		Corrected Temperature:	

Preservative Codes

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

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Sample Comments
Twin Wells Pit	7/12/2024		X		Comp	1		X	X	X	

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	7-12-24 1537	SRodriguez	

APPENDIX F

CARMONA RESOURCES

Soil Map—Eddy Area, New Mexico

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RG	Reeves-Gypsum land complex, 0 to 3 percent slopes	0.2	100.0%
Totals for Area of Interest		**0.2**	**100.0%**

Eddy Area, New Mexico

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f
Elevation: 1,250 to 5,000 feet
Mean annual precipitation: 10 to 25 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 190 to 235 days
Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent
Gypsum land: 30 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting

Landform: Ridges, plains, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, head slope, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 32 inches: clay loam
H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Ridges, plains, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, head slope, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydric soil rating: No

Minor Components

Reagan

Percent of map unit: 5 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Largo

Percent of map unit: 5 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Cottonwood

Percent of map unit: 5 percent
Ecological site: R070BC033NM - Salty Bottomland
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

BLM SERIAL #:

COMPANY REFERENCE:

3.1 Seed Mixture 1, for Loamy Sites

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

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

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

Species	lb/acre
Plains lovegrass (Eragrostis intermedia)	0.5
Sand dropseed (Sporobolus cryptandrus)	1.0
Sideoats grama (Bouteloua curtipendula)	5.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

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

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

QUESTIONS

Action 366052

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 366052
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2415841931**
Incident Name	**NAPP2415841931 SOLUTION FEDERAL COM 003H @ 0**
Incident Type	**Fire**
Incident Status	**Remediation Closure Report Received**
Incident Facility	**[fAPP2203955700] Solution Fed 3H Battery**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SOLUTION FEDERAL COM 003H
Date Release Discovered	05/11/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure | Other (Specify) | Crude Oil | Released: 0 BBL | Recovered: 0 BBL | Lost: 0 BBL.
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

District I
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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

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 366052
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**More info needed to determine if this will be treated as a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(2) an unauthorized release of a volume that:** **(a) results in a fire or is the result of a fire.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 06/06/2024

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

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 366052
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1180
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1750
GRO+DRO (EPA SW-846 Method 8015M)	1500
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	07/11/2024
On what date will (or did) the final sampling or liner inspection occur	07/11/2024
On what date will (or was) the remediation complete(d)	07/12/2024
What is the estimated surface area (in square feet) that will be reclaimed	1642
What is the estimated volume (in cubic yards) that will be reclaimed	80
What is the estimated surface area (in square feet) that will be remediated	1642
What is the estimated volume (in cubic yards) that will be remediated	80
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 366052
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	Solution Fed 3H Battery [fAPP2203955700]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/22/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 366052
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 366052
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**361976**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**07/11/2024**
What was the (estimated) number of samples that were to be gathered	**22**
What was the sampling surface area in square feet	**1642**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1642
What was the total volume (cubic yards) remediated	80
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1642
What was the total volume (in cubic yards) reclaimed	80
Summarize any additional remediation activities not included by answers (above)	N/A

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/22/2024

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 366052
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 366052

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	229137
	Action Number: 366052
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	8/7/2024
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	8/7/2024