

CARMONA RESOURCES



SITE INFORMATION

Closure Report
Quien Sabe 25 Fed 001H (03.23.22)
Eddy County, New Mexico
Unit A Sec 25 T24S R27E
32.194915°, -104.137939°

Crude Oil Release
Point of Release: Malfunctioning Gas Regulator at the Flare.
Release Date: 03/23/2022
Volume Released: 0.5 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 415
Midland, Texas 79701

310 West Wall Street, Suite 415
Midland TX, 79701
432.813.1992

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June 9, 2022

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

**Re: Closure Report
Quien Sabe 25 Fed 001H (03.23.22)
Concho Operating, LLC
Site Location: Unit A, S25, T24S, R27E
(Lat 32.194915°, Long -104.137939°)
Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resource, LLC has prepared this letter to document site assessment activities. The site is located at 32.194901, -104.137971 within Unit A, S25, T24S, R27E, and in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on March 23, 2022, caused by a malfunctioning gas regulator at the flare causing a fire. It resulted in the release of approximately 0.5 barrels of crude oil, and 0 barrels were recovered. See the impacted area in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water source is within a 0.50-mile radius of the location. The nearest identified well is located approximately 1.15 miles southeast of the site in S30, T24S, R28E and was drilled in 1998. The well has a reported depth to groundwater of 64.46' feet below ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

Initial Assessment

On May 7, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of three (3) sample points (S-1, S-2, and S-3) and five (5) horizontal sample points (H-1 through H-5) were installed to total depths ranging from surface to 1.0 ft below the surface. Soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015



modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The sample locations are shown on Figure 3.

Vertical and horizontal delineation was achieved in all samples except for the area of S-1. Refer to Table 1.

5.0 Remediation Activities

Carmona Resources personnel were onsite from June 6-7th, 2022 to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on June 3, 2022, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 was excavated to a depth of 2.0' below the surface to remove all the impacted soils. A total of two (2) floor confirmation samples were collected (CS-1 and CS-2), and four (4) sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The sampling results are summarized in Table 2. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 40 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

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

Sincerely,
Carmona Resources, LLC

Ashton Thielke
Sr. Project Manager

Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES



OVERVIEW MAP COG OPERATING

QUIEN SABE 25 FED 001H

03/23/22

EDDY COUNTY, NEW MEXICO

32.194901°, -104.137971°

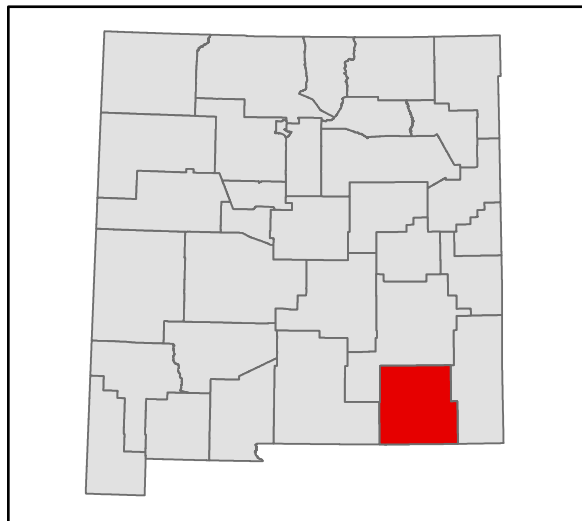


0 2.5 5 10

Miles



Site Location



CARMONA RESOURCES



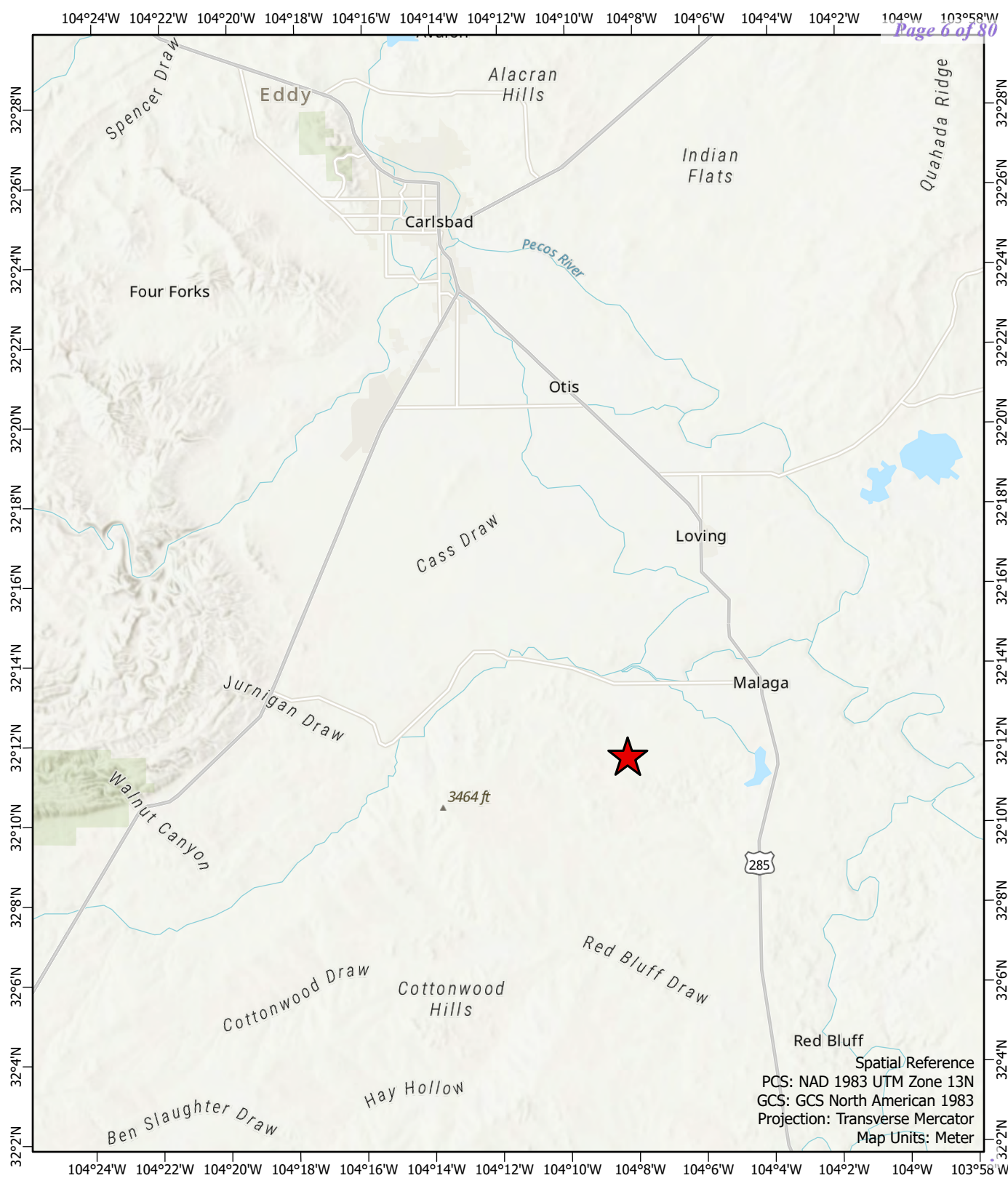
Carmona Resources

310 West Wall Street, Suite 415

Midland, Texas 7970

DRAWING NUMBER: **Figure 1**

SHEET NUMBER: **1 of 1**



TOPOGRAPHIC MAP
COG OPERATING
QUIEN SABE 25 FED 001H
03/23/22
EDDY COUNTY, NEW MEXICO
32.194901°, -104.137971°

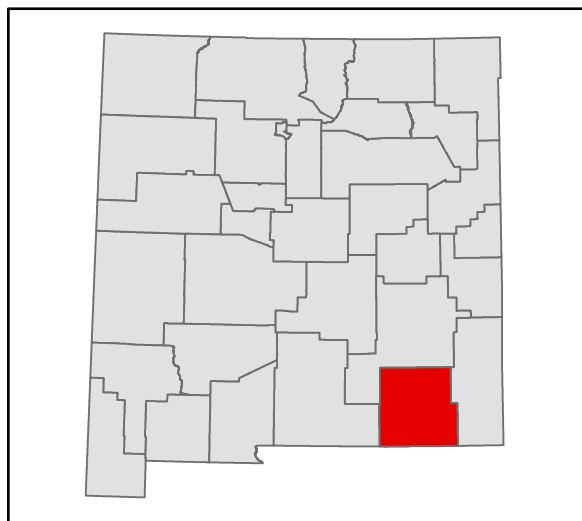


0 0.13 0.25 0.5

Miles



Site Location

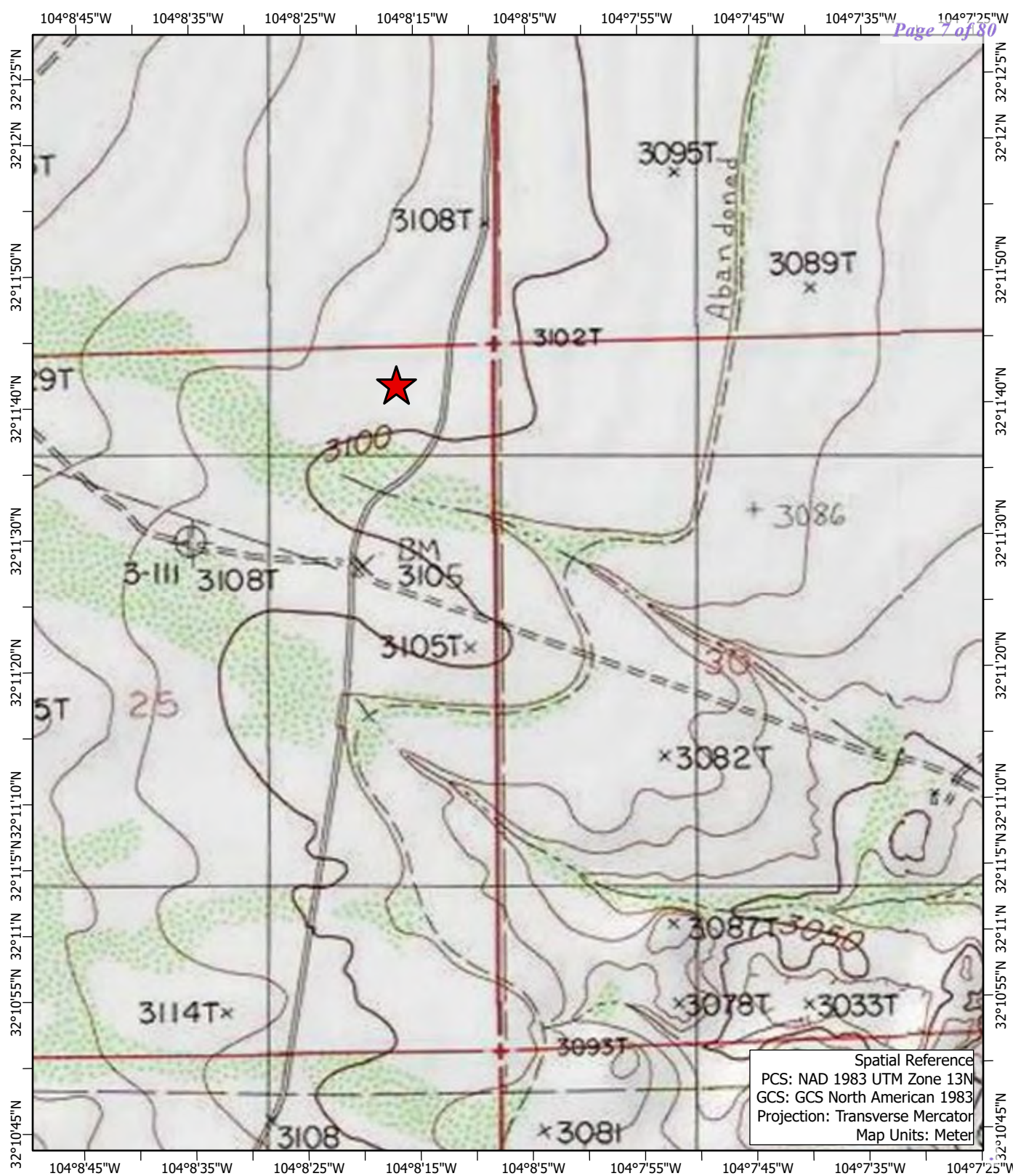


CARMONA RESOURCES

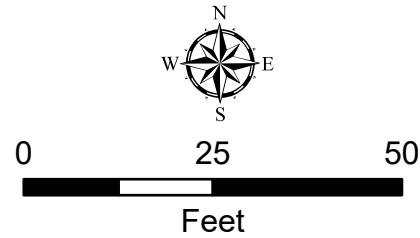


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Midland, Texas 7970

DRAWING NUMBER: **Figure 2**
SHEET NUMBER: **1 of 1**



SAMPLE LOCATION MAP
COG OPERATING
QUIEN SABE 25 FED 001H
03/23/22
EDDY COUNTY, NEW MEXICO
32.194901°, -104.137971°



Legend

- Point of Release
- Sample Points
- Horizontals
- Area of Concern

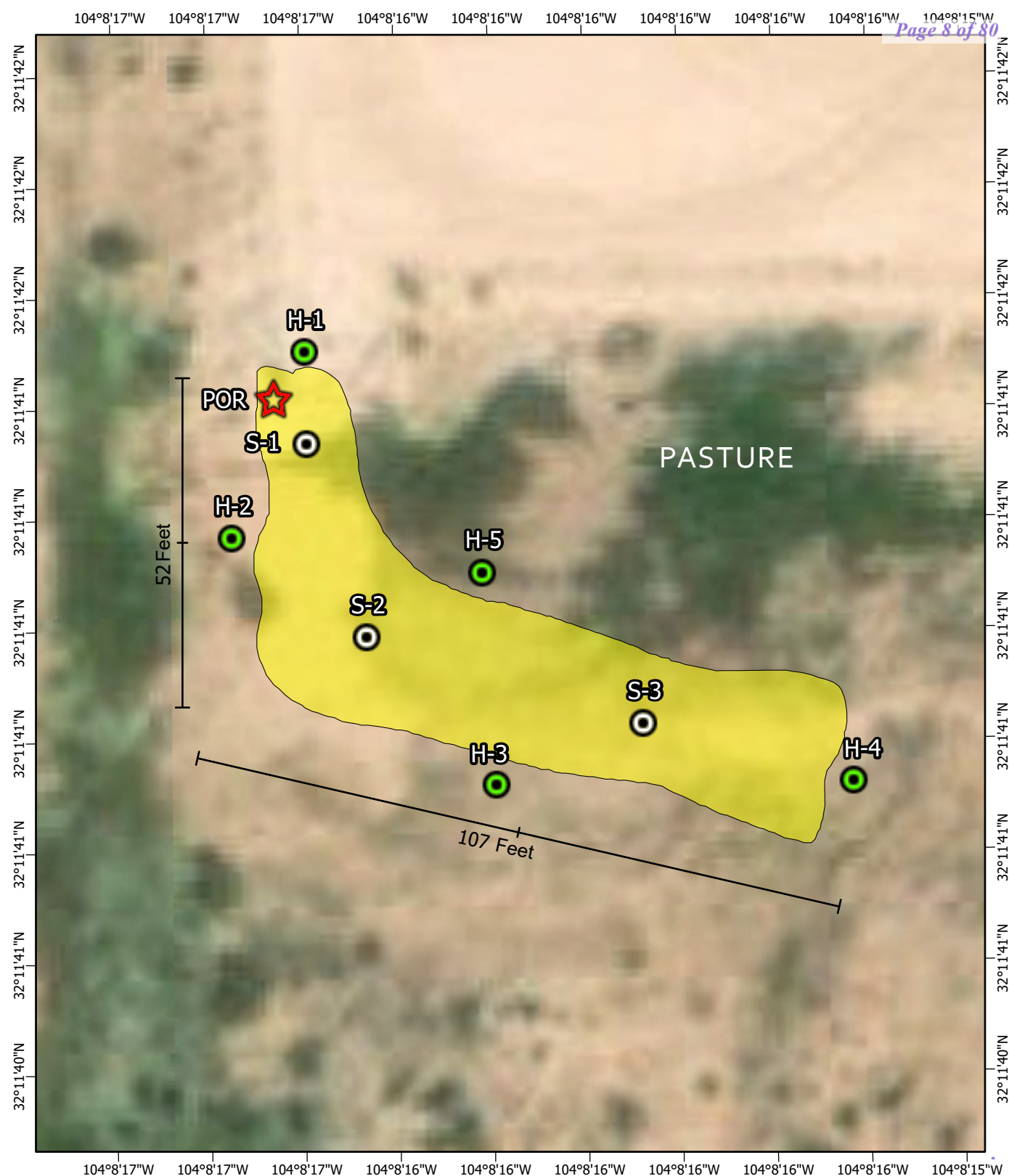
Spatial Reference
PCS: NAD 1983 UTM Zone 13N
GCS: GCS North American 1983
Projection: Transverse Mercator
Map Units: Meter

Date Exported: 06/06/22



Carmona Resources
310 West Wall Street, Suite 415
Midland, Texas 7970

DRAWING NUMBER: **Figure 3**
SHEET NUMBER: **1 of 1**



SAMPLE LOCATION MAP
COG OPERATING
QUIEN SABE 25 FED 001H

03/23/22





EDDY COUNTY, NEW MEXICO

32.194901°, -104.137971°



0 4 8
Feet

Legend

-  Point of Release
-  Confirmation Samples
-  Sidewall Samples
-  2' Excavation

Spatial Reference

PCS: NAD 1983 UTM Zone 13N

GCS: GCS North American 1983

Projection: Transverse Mercator

Map Units: Meter

Date Exported: 06/06/22

CARMONA RESOURCES



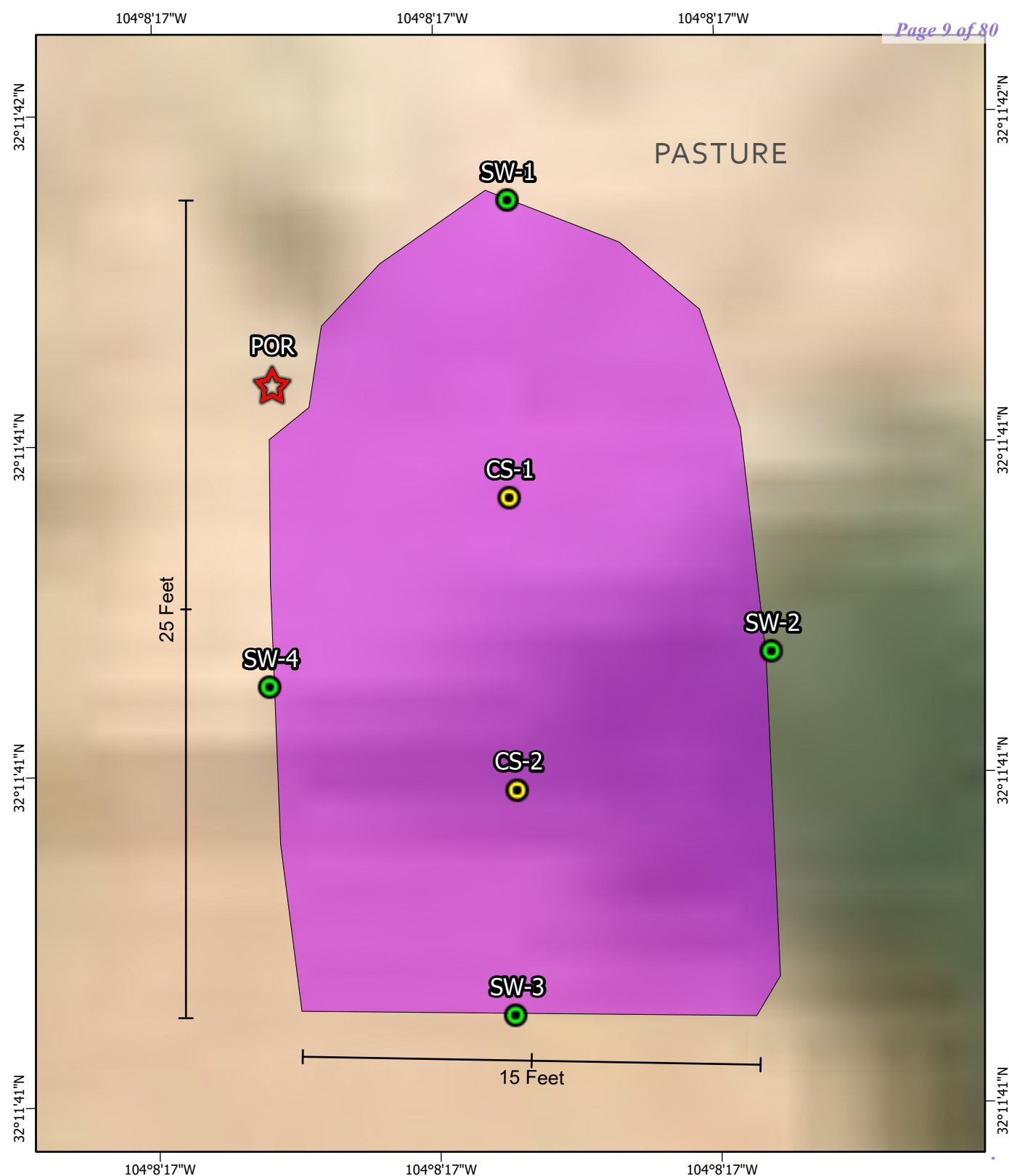
Carmona Resources

310 West Wall Street, Suite 415

Midland, Texas 7970

DRAWING NUMBER: **Figure 4**

SHEET NUMBER: **1 of 1**



APPENDIX A

CARMONA RESOURCES



Table 1
COG
Quien Sabe 25 Federal 001H (03.13.22)
Eddy County, New Mexico

Sample ID	Date	Depth (In)	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	5/7/2022	0-3	<50.0	2,640	<50.0	2,640	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	3,890
	"	6	<49.9	567	<49.9	567	<0.00200	0.00316	<0.00200	<0.00399	<0.00399	2,530
	"	12	<50.0	50.4	<50.0	50.4	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	1,150
S-2	5/7/2022	0-3	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	26.9
	"	6	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	5.57
S-3	5/7/2022	0-3	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	11.4
	"	6	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	59.0
H-1	5/7/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	5.72
H-2	5/7/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5.49
H-3	5/7/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<5.01
H-4	5/7/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	6.23
H-5	5/7/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<5.00
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

In-Inches

(S) Sample Point

(H) Horizontal

 Removed

Table 2
COG
Quien Sabe 25 Federal 001H (03.13.22)
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	6/6/2022	2	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	576
CS-2	6/6/2022	2	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-1	6/6/2022	2	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-2	6/6/2022	2	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-3	6/6/2022	2	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	496
SW-4	6/6/2022	2	<10.0	33.3	<10.0	33.3	<0.050	<0.050	<0.050	<0.150	<0.300	304
Regulatory Criteria ^A						100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(CS) Confirmation Floor Sample

(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Concho Operating, LLC

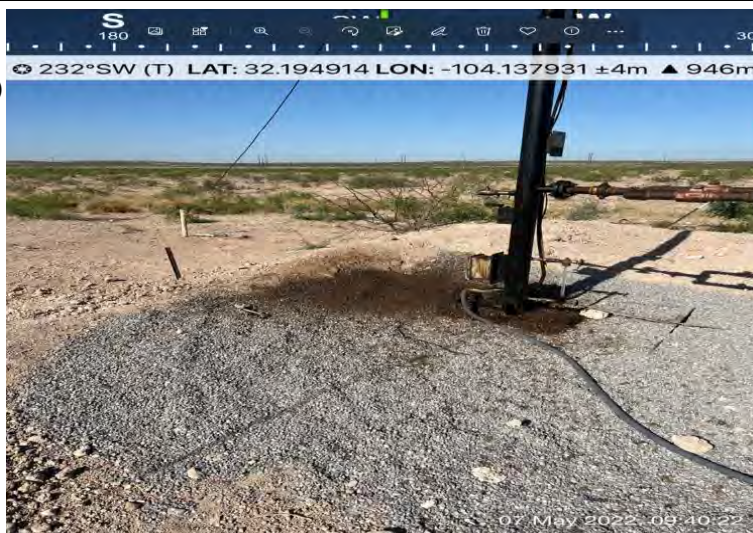
Photograph No. 1

Facility: Quien Sabe 25 Fed 001H (03.23.22)

County: Eddy County, New Mexico

Description:

View Southwest of the Point of Release and S-1.



Photograph No. 2

Facility: Quien Sabe 25 Fed 001H (03.23.22)

County: Eddy County, New Mexico

Description:

View Northwest of S-1.



Photograph No. 3

Facility: Quien Sabe 25 Fed 001H (03.23.22)

County: Eddy County, New Mexico

Description:

View Southeast of S-2 and S-3..



PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 4

Facility: Quien Sabe 25 Fed 001H (03.23.22)

County: Eddy County, New Mexico

Description:

View Southwest of CS-1.



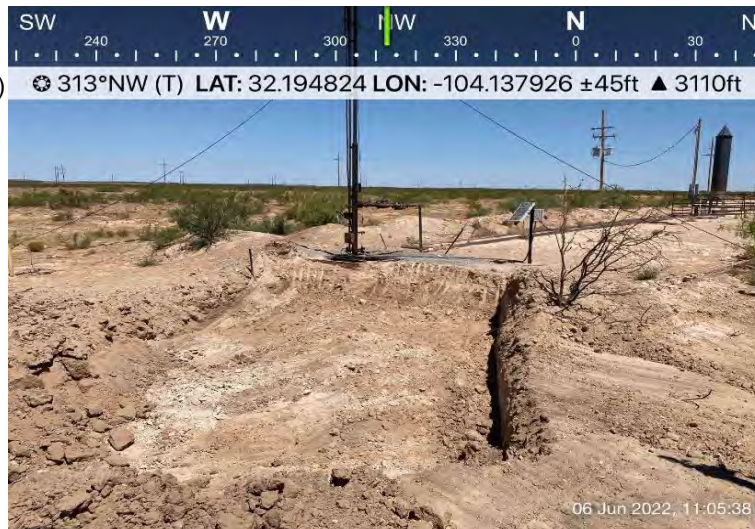
Photograph No. 5

Facility: Quien Sabe 25 Fed 001H (03.23.22)

County: Eddy County, New Mexico

Description:

View Northwest of CS-1 and CS-2.



Photograph No. 6

Facility: Quien Sabe 25 Fed 001H (03.23.22)

County: Eddy County, New Mexico

Description:

View North of CS-1 and CS-2.



APPENDIX C

CARMONA RESOURCES



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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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

L48 Spill Volume Estimate Form									
Facility Name & Number:		Quien Sabe 25 Federal 1H							
Asset Area:		DBWN							
Release Discovery Date & Time:		3/23/2022							
Release Type:		Oil							
Provide any known details about the event:									
Spill Calculation - Subsurface Spill - Rectangle									
Was the release on pad or off-pad?		See reference table below							
Has it rained at least a half inch in the last 24 hours?		See reference table below							
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	13.0	20.0	1.00	13.63%	3.857	0.526			
Rectangle B					0.000	0.000			
Rectangle C					0.000	0.000			
Rectangle D					0.000	0.000			
Rectangle E					0.000	0.000			
Rectangle F					0.000	0.000			
Rectangle G					0.000	0.000			
Rectangle H					0.000	0.000			
Rectangle I					0.000	0.000			
Rectangle J					0.000	0.000			
Total Volume Release:						0.526			

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Jaqui Heredia Date: 6/13/2022

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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 Herrera Date: 6/13/2022

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: Jennifer Nobui Date: _____

Printed Name: _____ Title: _____

From: Mike Carmona
Sent: Friday, June 3, 2022 8:17 AM
To: OCD.Enviro@state.nm.us
Cc: Harris, Jacqui; Conner Moehring
Subject: COG Quien Sabe 25 Fed 001H (03.23.22) -NAPP2209549874-Sampling Notification

Good Morning,

This email serves as notification for excavation and confirmation sampling on the COG Quien Sabe 25 Fed 001H (03.23.22). Excavation and sampling are scheduled to begin May 6th at 8:30 a.m. (MST). Carmona Resources will be onsite for field and confirmation sampling.

COG Quien Sabe 25 Fed 001H (03.23.22)
Sec 25 T24S R27E Unit A
32.194915°, -104.137939°
Eddy County, New Mexico

Mike J. Carmona
310 West Wall Street, Suite 415
Midland TX, 79701
M: 432-813-1992
Mcarmona@carmonaresources.com



APPENDIX D

CARMONA RESOURCES



Nearest water well

COG OPERATING

Legend

- 0.50 Mile Radius
- 1.15 Miles
- 1.40 Miles
- USGS Water Well
- NMSEO Water Well
- Quien Sabe Fed 001H (03.23.22)



Quien Sabe Fed 001H (03.23.22)

40' - Drilled 2005

64.46' - Drilled 1998

774




4000 ft



Medium Karst

COG OPERATING

Legend

-  High
-  Medium
-  Quien Sabe Fed 001H (03.23.22)

Quien Sabe Fed 001H (03.23.22)

774



1 mi



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 00342	C	CUB	ED	4	1	13	24S	27E		580432	3565080*	2565		
C 00347		CUB	ED	1	1	13	24S	27E		580010	3565479*	60	30	30
C 00364	C	CUB	ED	1	2	09	24S	27E		575997	3567043*	2270		
C 00516		CUB	ED	1	3	4	08	24S	27E	574288	3565901*	105	36	69
C 00516 CLW201016	O	CUB	ED	1	3	4	08	24S	27E	574288	3565901*	62		
C 00516 CLW308590	O	CUB	ED	1	3	4	08	24S	27E	574288	3565901*	105	36	69
C 00516 POD10		CUB	ED	3	4	3	08	24S	27E	573875	3565722	160	45	115
C 00516 POD6		CUB	ED	1	4	3	08	24S	27E	573885	3565895*	78	17	61
C 00516 S		CUB	ED	1	3	4	08	24S	27E	574288	3565901	50	17	33
C 00631	C	ED		3	3	4	08	24S	27E	574288	3565701*	50	24	26
C 00683	C	ED		4	3	08	24S	27E		573986	3565796*	50	17	33
C 00821	C	ED		3	2	09	24S	27E		575996	3566635*	97	50	47
C 00850	C	ED		2	3	09	24S	27E		575595	3566223*	108	35	73
C 00929	C	ED		3	3	18	24S	27E		572013	3564159*	54	33	21
C 01169	C	ED		1	4	3	18	24S	27E	572282	3564261*	55	35	20
C 01187	C	ED		4	3	08	24S	27E		573986	3565796*	108	17	91
C 01366		CUB	ED		4	08	24S	27E		574590	3566003*	60	35	25
C 01452	C	ED					22	24S	27E	577435	3563175*	95	70	25
C 01721	C	ED			1	25	24S	27E		580271	3562033*	170		
C 01841	C	ED			1	29	24S	27E		573806	3561953*	150		
C 01943	C	ED			1	13	24S	27E		580221	3565275*	30	25	5
C 02976	C	ED		4	2	3	12	24S	27E	580519	3566195*	57	27	30
C 03037	C	ED		4	3	4	12	24S	27E	580930	3565795*	116	25	91
C 03092	C	ED		4	3	1	08	24S	27E	573678	3566501*	54	37	17
C 03145	C	ED		3	1	4	13	24S	27E	580749	3564579*	103	40	63
C 03147	C	ED		3	3	3	12	24S	27E	579885	3565715	140		

*UTM location was derived from PLSS - see Help

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub- Code	basin	County	Q 6	Q 4	Q 16	4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 03260 POD1	C		ED	3	3	3	12	24S	27E		579995	3565935	80	56	24
C 03260 POD2	O	C	ED	1	3	3	12	24S	27E		580100	3565984	80	56	24
C 03489 POD1		CUB	ED	2	4	3	08	24S	27E		574153	3565939	200		
C 03490 POD1		CUB	ED	3	4	3	08	24S	27E		573812	3565709	140	23	117
C 03560 POD1		C	ED	2	3	3	18	24S	27E		572009	3564150	68	28	40
C 03740 POD1		C	ED	4	4	4	12	24S	27E		581283	3565795	340		
C 04147 POD1		CUB	ED	4	1	3	24	24S	27E		580101	3562969	35		
C 04360 POD1		C	ED	3	3	3	18	24S	27E		571910	3564085	72	40	32

Average Depth to Water: **34 feet**

Minimum Depth: **17 feet**

Maximum Depth: **70 feet**

Record Count: 34

PLSS Search:

Township: 24S

Range: 27E

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

5/8/22 2:38 PM

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WATER COLUMN/ AVERAGE
DEPTH TO WATER



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
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 =

- 321110104071701

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

USGS 321110104071701 24S.28E.30.413242

Eddy County, New Mexico
Latitude 32°11'10", Longitude 104°07'17" NAD27
Land-surface elevation 3,055 feet above NAVD88
The depth of the well is 201 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1983-01-31			D 62610		2989.68	NGVD29	1		Z	
1983-01-31			D 62611		2991.29	NAVD88	1		Z	
1983-01-31			D 72019	63.71			1		Z	
1988-02-10			D 62610		2991.52	NGVD29	1		Z	
1988-02-10			D 62611		2993.13	NAVD88	1		Z	
1988-02-10			D 72019	61.87			1		Z	
1992-11-04			D 62610		2990.33	NGVD29	1		S	
1992-11-04			D 62611		2991.94	NAVD88	1		S	
1992-11-04			D 72019	63.06			1		S	
1998-01-23			D 62610		2988.93	NGVD29	1		S	
1998-01-23			D 62611		2990.54	NAVD88	1		S	
1998-01-23			D 72019	64.46			1		S	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day

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

[Questions about sites/data?](#)[Feedback on this web site](#)[Automated retrievals](#)[Help](#)[Data Tips](#)[Explanation of terms](#)[Subscribe for system changes](#)[News](#)[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)**Title: Groundwater for New Mexico: Water Levels****URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2022-05-08 16:57:32 EDT

0.28 0.25 nadww02



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
	C 03145	3	1	4	13	24S	27E	580749	3564579*

Driller License: 1348 **Driller Company:** TAYLOR WATER WELL SERVICE

Driller Name:

Drill Start Date: 03/03/2005 **Drill Finish Date:** 03/04/2005 **Plug Date:**

Log File Date: 03/21/2005 **PCW Rev Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 60 GPM

Casing Size: 6.63 **Depth Well:** 103 feet **Depth Water:** 40 feet

Water Bearing Stratifications:	Top	Bottom	Description
	35	55	Sandstone/Gravel/Conglomerate
	96	98	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	55	75
	95	103

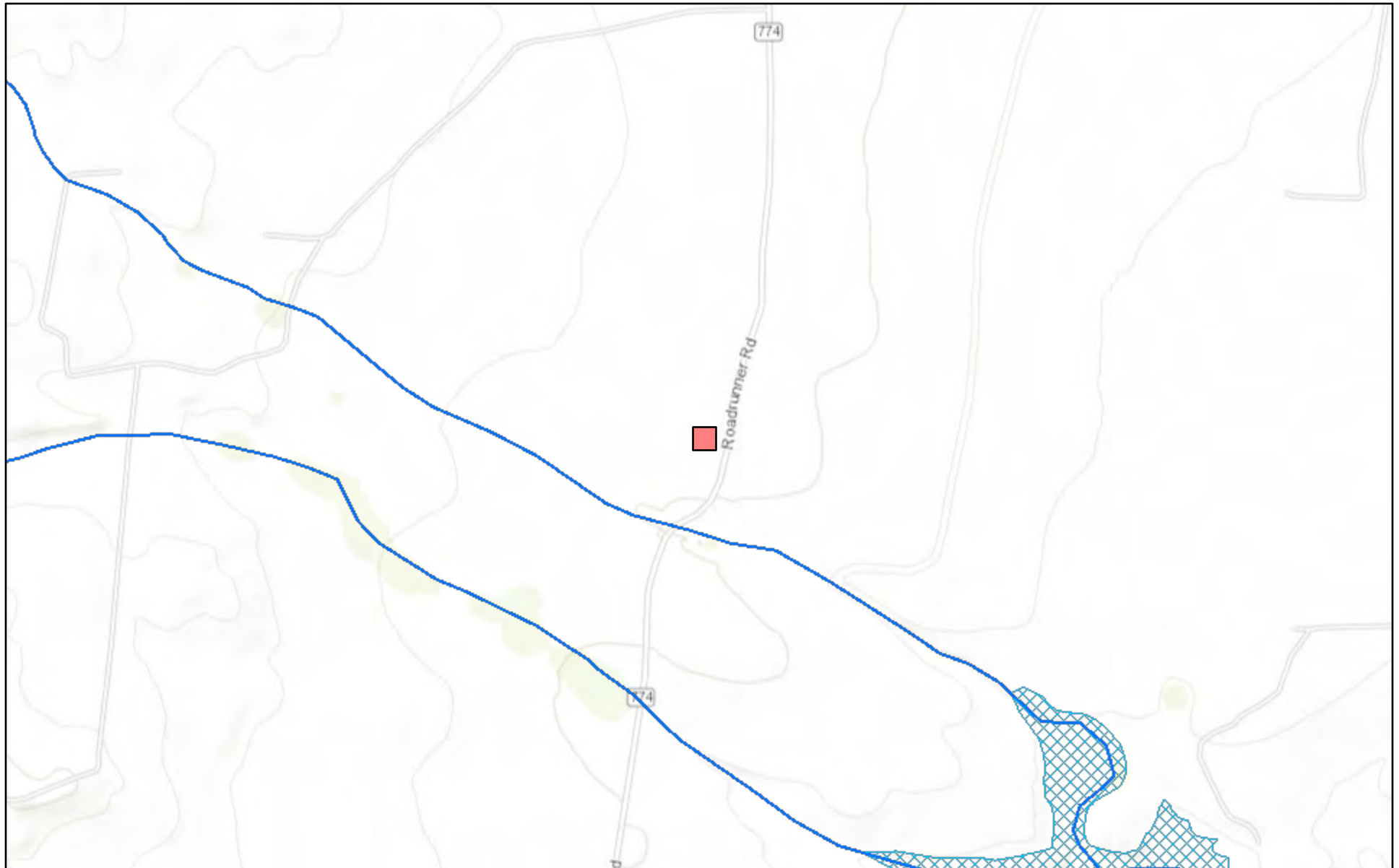
*UTM location was derived from PLSS - see Help

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

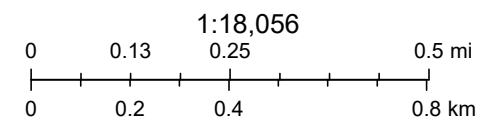
5/8/22 2:58 PM

POINT OF DIVERSION SUMMARY

New Mexico NFHL Data



May 8, 2022



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

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APPENDIX E

CARMONA RESOURCES





Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-14532-1

Laboratory Sample Delivery Group: Eddy Co, NM
Client Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

For:

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

Attn: Conner Moehring

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
5/12/2022 6:08:20 PM

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

LINKS

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

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

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Laboratory Job ID: 880-14532-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Carmona Resources

Job ID: 880-14532-1

Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Eurofins Midland

Case Narrative

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

Job ID: 880-14532-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-14532-1**

Receipt

The samples were received on 5/9/2022 12:00 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 3.3°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25110 and analytical batch 880-25224 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside of acceptance limits: S-1 (0-3") (880-14532-1), S-1 (6") (880-14532-2), S-1 (12") (880-14532-3), S-2 (0-3") (880-14532-4), S-2 (6") (880-14532-5), S-3 (0-3") (880-14532-6), S-3 (6") (880-14532-7), H-1 (0-3") (880-14532-8), H-2 (0-3") (880-14532-9), H-3 (0-3") (880-14532-10), (CCV 880-25306/20) and (CCV 880-25306/33). There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-25129/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-25129 and analytical batch 880-25066 recovered outside control limits for the following analytes: <AffectedAnalytes>.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-25206 and analytical batch 880-25318 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-14532-1

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:00	05/11/22 21:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:00	05/11/22 21:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:00	05/11/22 21:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/09/22 13:00	05/11/22 21:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:00	05/11/22 21:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/09/22 13:00	05/11/22 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	05/09/22 13:00	05/11/22 21:24	1
1,4-Difluorobenzene (Surr)	71		70 - 130	05/09/22 13:00	05/11/22 21:24	1

Method: 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			05/10/22 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2640		50.0		mg/Kg			05/10/22 09:24	1

Method: 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 *1	50.0		mg/Kg		05/09/22 15:08	05/09/22 23:31	1
Diesel Range Organics (Over C10-C28)	2640		50.0		mg/Kg		05/09/22 15:08	05/09/22 23:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/09/22 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	05/09/22 15:08	05/09/22 23:31	1
o-Terphenyl	124		70 - 130	05/09/22 15:08	05/09/22 23:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3890	F1	50.0		mg/Kg			05/11/22 23:43	10

Client Sample ID: S-1 (6")

Lab Sample ID: 880-14532-2

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/12/22 10:53	05/12/22 16:29	1
Toluene	0.00316		0.00200		mg/Kg		05/12/22 10:53	05/12/22 16:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/12/22 10:53	05/12/22 16:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/12/22 10:53	05/12/22 16:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/12/22 10:53	05/12/22 16:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/12/22 10:53	05/12/22 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	05/12/22 10:53	05/12/22 16:29	1
1,4-Difluorobenzene (Surr)	99		70 - 130	05/12/22 10:53	05/12/22 16:29	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (6")

Lab Sample ID: 880-14532-2

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/10/22 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	567		49.9		mg/Kg			05/10/22 09:24	1

Method: 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 *1	49.9		mg/Kg		05/09/22 15:08	05/09/22 22:28	1
Diesel Range Organics (Over C10-C28)	567		49.9		mg/Kg		05/09/22 15:08	05/09/22 22:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/09/22 15:08	05/09/22 22:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				05/09/22 15:08	05/09/22 22:28	1
o-Terphenyl	116		70 - 130				05/09/22 15:08	05/09/22 22:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2530		25.0		mg/Kg			05/12/22 00:11	5

Client Sample ID: S-1 (12")

Lab Sample ID: 880-14532-3

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/09/22 13:00	05/11/22 22:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/09/22 13:00	05/11/22 22:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/09/22 13:00	05/11/22 22:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/09/22 13:00	05/11/22 22:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/09/22 13:00	05/11/22 22:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/09/22 13:00	05/11/22 22:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130				05/09/22 13:00	05/11/22 22:15	1
1,4-Difluorobenzene (Surr)	84		70 - 130				05/09/22 13:00	05/11/22 22:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/10/22 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.4		50.0		mg/Kg			05/10/22 09:24	1

Method: 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 *1	50.0		mg/Kg		05/09/22 15:08	05/09/22 23:52	1
Diesel Range Organics (Over C10-C28)	50.4		50.0		mg/Kg		05/09/22 15:08	05/09/22 23:52	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (12")

Lab Sample ID: 880-14532-3

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Method: 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		05/09/22 15:08	05/09/22 23:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				05/09/22 15:08	05/09/22 23:52	1
o-Terphenyl	120		70 - 130				05/09/22 15:08	05/09/22 23:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		24.8		mg/Kg			05/12/22 00:20	5

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

Lab Sample ID: 880-14532-4

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/11/22 22:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/11/22 22:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/11/22 22:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/09/22 13:00	05/11/22 22:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/11/22 22:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/09/22 13:00	05/11/22 22:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130				05/09/22 13:00	05/11/22 22:41	1
1,4-Difluorobenzene (Surr)	81		70 - 130				05/09/22 13:00	05/11/22 22:41	1

Method: 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			05/10/22 19:15	1

Method: 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			05/10/22 09:24	1

Method: 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 *1	50.0		mg/Kg		05/09/22 15:08	05/10/22 00:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/10/22 00:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/10/22 00:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				05/09/22 15:08	05/10/22 00:13	1
o-Terphenyl	114		70 - 130				05/09/22 15:08	05/10/22 00:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.9		4.97		mg/Kg			05/12/22 00:29	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

Client Sample ID: S-2 (6")

Lab Sample ID: 880-14532-5

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:00	05/11/22 23:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:00	05/11/22 23:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:00	05/11/22 23:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/09/22 13:00	05/11/22 23:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:00	05/11/22 23:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/09/22 13:00	05/11/22 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130	05/09/22 13:00	05/11/22 23:07	1
1,4-Difluorobenzene (Surr)	82		70 - 130	05/09/22 13:00	05/11/22 23:07	1

Method: 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			05/10/22 19:15	1

Method: 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			05/10/22 09:24	1

Method: 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 *1	49.9		mg/Kg		05/09/22 15:08	05/10/22 00:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/09/22 15:08	05/10/22 00:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/09/22 15:08	05/10/22 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	05/09/22 15:08	05/10/22 00:34	1
o-Terphenyl	108		70 - 130	05/09/22 15:08	05/10/22 00:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.57		5.04		mg/Kg			05/12/22 00:39	1

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

Lab Sample ID: 880-14532-6

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/11/22 23:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/11/22 23:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/11/22 23:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/09/22 13:00	05/11/22 23:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/11/22 23:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/09/22 13:00	05/11/22 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	05/09/22 13:00	05/11/22 23:34	1
1,4-Difluorobenzene (Surr)	82		70 - 130	05/09/22 13:00	05/11/22 23:34	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-14532-6

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Method: 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			05/10/22 19:15	1

Method: 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			05/10/22 09:24	1

Method: 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 *1	49.9		mg/Kg		05/09/22 15:08	05/10/22 00:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/09/22 15:08	05/10/22 00:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/09/22 15:08	05/10/22 00:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				05/09/22 15:08	05/10/22 00:54	1
o-Terphenyl	120		70 - 130				05/09/22 15:08	05/10/22 00:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.4		4.99		mg/Kg			05/12/22 01:06	1

Client Sample ID: S-3 (6")

Lab Sample ID: 880-14532-7

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/12/22 00:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/12/22 00:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/12/22 00:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/09/22 13:00	05/12/22 00:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/12/22 00:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/09/22 13:00	05/12/22 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130				05/09/22 13:00	05/12/22 00:00	1
1,4-Difluorobenzene (Surr)	78		70 - 130				05/09/22 13:00	05/12/22 00:00	1

Method: 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			05/10/22 19:15	1

Method: 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			05/10/22 09:24	1

Method: 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 *1	50.0		mg/Kg		05/09/22 15:08	05/10/22 01:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/10/22 01:15	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

Client Sample ID: S-3 (6")

Lab Sample ID: 880-14532-7

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Method: 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		05/09/22 15:08	05/10/22 01:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				05/09/22 15:08	05/10/22 01:15	1
o-Terphenyl	111		70 - 130				05/09/22 15:08	05/10/22 01:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.0		5.05		mg/Kg			05/12/22 01:16	1

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

Lab Sample ID: 880-14532-8

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:00	05/12/22 00:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:00	05/12/22 00:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:00	05/12/22 00:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/09/22 13:00	05/12/22 00:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:00	05/12/22 00:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/09/22 13:00	05/12/22 00:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130				05/09/22 13:00	05/12/22 00:25	1
1,4-Difluorobenzene (Surr)	83		70 - 130				05/09/22 13:00	05/12/22 00:25	1

Method: 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			05/10/22 19:15	1

Method: 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			05/10/22 09:24	1

Method: 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 *1	49.9		mg/Kg		05/09/22 15:08	05/10/22 01:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/09/22 15:08	05/10/22 01:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/09/22 15:08	05/10/22 01:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/09/22 15:08	05/10/22 01:36	1
o-Terphenyl	109		70 - 130				05/09/22 15:08	05/10/22 01:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.72		4.99		mg/Kg			05/12/22 01:25	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-14532-9

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/12/22 00:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/12/22 00:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/12/22 00:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/09/22 13:00	05/12/22 00:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/12/22 00:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/09/22 13:00	05/12/22 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130	05/09/22 13:00	05/12/22 00:50	1
1,4-Difluorobenzene (Surr)	79		70 - 130	05/09/22 13:00	05/12/22 00:50	1

Method: 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			05/10/22 19:15	1

Method: 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			05/10/22 09:24	1

Method: 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 *1	49.9		mg/Kg		05/09/22 15:08	05/10/22 01:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/09/22 15:08	05/10/22 01:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/09/22 15:08	05/10/22 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	05/09/22 15:08	05/10/22 01:57	1
o-Terphenyl	110		70 - 130	05/09/22 15:08	05/10/22 01:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.49		5.00		mg/Kg			05/12/22 01:34	1

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

Lab Sample ID: 880-14532-10

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/12/22 01:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/12/22 01:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/12/22 01:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/09/22 13:00	05/12/22 01:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/12/22 01:15	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/09/22 13:00	05/12/22 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130	05/09/22 13:00	05/12/22 01:15	1
1,4-Difluorobenzene (Surr)	77		70 - 130	05/09/22 13:00	05/12/22 01:15	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-14532-10

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Method: 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			05/10/22 19:15	1

Method: 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			05/10/22 09:24	1

Method: 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 *1	50.0		mg/Kg		05/09/22 15:08	05/10/22 02:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/10/22 02:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/10/22 02:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				05/09/22 15:08	05/10/22 02:18	1
o-Terphenyl	112		70 - 130				05/09/22 15:08	05/10/22 02:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			05/12/22 01:43	1

Client Sample ID: H-4 (0-3")

Lab Sample ID: 880-14532-11

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1	0.00202		mg/Kg		05/09/22 13:08	05/10/22 12:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/09/22 13:08	05/10/22 12:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/09/22 13:08	05/10/22 12:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/09/22 13:08	05/10/22 12:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/09/22 13:08	05/10/22 12:31	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/09/22 13:08	05/10/22 12:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				05/09/22 13:08	05/10/22 12:31	1
1,4-Difluorobenzene (Surr)	97		70 - 130				05/09/22 13:08	05/10/22 12:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/10/22 19:15	1

Method: 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			05/10/22 09:24	1

Method: 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 *1	50.0		mg/Kg		05/09/22 15:08	05/10/22 02:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/10/22 02:59	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

Client Sample ID: H-4 (0-3")

Lab Sample ID: 880-14532-11

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Method: 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		05/09/22 15:08	05/10/22 02:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				05/09/22 15:08	05/10/22 02:59	1
o-Terphenyl	111		70 - 130				05/09/22 15:08	05/10/22 02:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.23		4.98		mg/Kg			05/12/22 01:52	1

Client Sample ID: H-5 (0-3")

Lab Sample ID: 880-14532-12

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:08	05/10/22 12:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:08	05/10/22 12:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:08	05/10/22 12:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/09/22 13:08	05/10/22 12:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:08	05/10/22 12:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/09/22 13:08	05/10/22 12:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				05/09/22 13:08	05/10/22 12:51	1
1,4-Difluorobenzene (Surr)	94		70 - 130				05/09/22 13:08	05/10/22 12:51	1

Method: 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			05/10/22 19:15	1

Method: 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			05/10/22 09:24	1

Method: 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 *1	50.0		mg/Kg		05/09/22 15:08	05/10/22 03:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/10/22 03:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/10/22 03:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				05/09/22 15:08	05/10/22 03:20	1
o-Terphenyl	115		70 - 130				05/09/22 15:08	05/10/22 03:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/12/22 02:20	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB1	DFBZ1		
		(70-130)	(70-130)		
880-14532-1	S-1 (0-3")	143 S1+	71		
880-14532-2	S-1 (6")	110	99		
880-14532-3	S-1 (12")	180 S1+	84		
880-14532-4	S-2 (0-3")	148 S1+	81		
880-14532-5	S-2 (6")	156 S1+	82		
880-14532-6	S-3 (0-3")	137 S1+	82		
880-14532-7	S-3 (6")	164 S1+	78		
880-14532-8	H-1 (0-3")	151 S1+	83		
880-14532-9	H-2 (0-3")	168 S1+	79		
880-14532-10	H-3 (0-3")	168 S1+	77		
880-14532-11	H-4 (0-3")	109	97		
880-14532-11 MS	H-4 (0-3")	105	91		
880-14532-11 MSD	H-4 (0-3")	107	99		
880-14532-12	H-5 (0-3")	101	94		
890-2270-A-1-D MS	Matrix Spike	154 S1+	89		
890-2270-A-1-E MSD	Matrix Spike Duplicate	129	97		
890-2271-A-51-F MS	Matrix Spike	114	98		
890-2271-A-51-G MSD	Matrix Spike Duplicate	111	102		
LCS 880-25088/1-A	Lab Control Sample	150 S1+	94		
LCS 880-25110/1-A	Lab Control Sample	98	99		
LCS 880-25410/1-A	Lab Control Sample	106	99		
LCSD 880-25088/2-A	Lab Control Sample Dup	137 S1+	85		
LCSD 880-25110/2-A	Lab Control Sample Dup	103	96		
LCSD 880-25410/2-A	Lab Control Sample Dup	105	98		
MB 880-25088/5-A	Method Blank	107	76		
MB 880-25110/5-A	Method Blank	101	95		
MB 880-25410/5-A	Method Blank	99	97		
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	OTPH1		
		(70-130)	(70-130)		
880-14532-1	S-1 (0-3")	112	124		
880-14532-2	S-1 (6")	108	116		
880-14532-2 MS	S-1 (6")	104	100		
880-14532-2 MSD	S-1 (6")	102	98		
880-14532-3	S-1 (12")	110	120		
880-14532-4	S-2 (0-3")	108	114		
880-14532-5	S-2 (6")	103	108		
880-14532-6	S-3 (0-3")	112	120		
880-14532-7	S-3 (6")	103	111		
880-14532-8	H-1 (0-3")	102	109		
880-14532-9	H-2 (0-3")	106	110		
880-14532-10	H-3 (0-3")	105	112		

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-14532-1

Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

SDG: Eddy Co, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-14532-11	H-4 (0-3")	105	111
880-14532-12	H-5 (0-3")	110	115
LCS 880-25129/2-A	Lab Control Sample	116	121
LCSD 880-25129/3-A	Lab Control Sample Dup	129	136 S1+
MB 880-25129/1-A	Method Blank	99	107

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25088/5-A

Matrix: Solid

Analysis Batch: 25306

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:53	05/11/22 14:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:53	05/11/22 14:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:53	05/11/22 14:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/09/22 11:53	05/11/22 14:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:53	05/11/22 14:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/09/22 11:53	05/11/22 14:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/09/22 11:53	05/11/22 14:53	1
1,4-Difluorobenzene (Surr)	76		70 - 130	05/09/22 11:53	05/11/22 14:53	1

Lab Sample ID: LCS 880-25088/1-A

Matrix: Solid

Analysis Batch: 25306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1130		mg/Kg		113	70 - 130
Toluene	0.100	0.1120		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.1247		mg/Kg		125	70 - 130
m-Xylene & p-Xylene	0.200	0.2529		mg/Kg		126	70 - 130
o-Xylene	0.100	0.1257		mg/Kg		126	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-25088/2-A

Matrix: Solid

Analysis Batch: 25306

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25088

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1079		mg/Kg		108	70 - 130	5	35
Toluene	0.100	0.1095		mg/Kg		109	70 - 130	2	35
Ethylbenzene	0.100	0.1195		mg/Kg		120	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2415		mg/Kg		121	70 - 130	5	35
o-Xylene	0.100	0.1191		mg/Kg		119	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 890-2270-A-1-D MS

Matrix: Solid

Analysis Batch: 25306

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25088

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U F1	0.0996	<0.00199	U F1	mg/Kg		0	70 - 130
Toluene	<0.00202	U F1 F2	0.0996	<0.00199	U F1	mg/Kg		2	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-2270-A-1-D MS

Matrix: Solid

Analysis Batch: 25306

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25088

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U F1 F2	0.0996	<0.00199	U F1	mg/Kg		2	70 - 130
m-Xylene & p-Xylene	<0.00404	U F1 F2	0.199	0.004587	F1	mg/Kg		2	70 - 130
o-Xylene	<0.00202	U F1 F2	0.0996	0.002450	F1	mg/Kg		2	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 890-2270-A-1-E MSD

Matrix: Solid

Analysis Batch: 25306

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25088

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.0992	0.08006		mg/Kg		81	70 - 130	NC	35
Toluene	<0.00202	U F1 F2	0.0992	0.06652	F1 F2	mg/Kg		67	70 - 130	189	35
Ethylbenzene	<0.00202	U F1 F2	0.0992	0.06049	F1 F2	mg/Kg		61	70 - 130	190	35
m-Xylene & p-Xylene	<0.00404	U F1 F2	0.198	0.1214	F1 F2	mg/Kg		61	70 - 130	185	35
o-Xylene	<0.00202	U F1 F2	0.0992	0.06340	F1 F2	mg/Kg		64	70 - 130	185	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-25110/5-A

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/09/22 13:08	05/10/22 12:02	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	05/09/22 13:08	05/10/22 12:02	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/09/22 13:08	05/10/22 12:02	1

Lab Sample ID: LCS 880-25110/1-A

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07835		mg/Kg		78	70 - 130
Toluene	0.100	0.08287		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.08401		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1737		mg/Kg		87	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-25110/1-A

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09512		mg/Kg		95	70 - 130

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

Lab Sample ID: LCSD 880-25110/2-A

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25110

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.07829		mg/Kg		78	70 - 130	0	35
Toluene	0.100	0.08275		mg/Kg		83	70 - 130	0	35
Ethylbenzene	0.100	0.08661		mg/Kg		87	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1794		mg/Kg		90	70 - 130	3	35
o-Xylene	0.100	0.09783		mg/Kg		98	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-14532-11 MS

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: H-4 (0-3")

Prep Type: Total/NA

Prep Batch: 25110

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U F1	0.0996	0.06253	F1	mg/Kg		63	70 - 130
Toluene	<0.00202	U	0.0996	0.07143		mg/Kg		71	70 - 130
Ethylbenzene	<0.00202	U	0.0996	0.07421		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.199	0.1548		mg/Kg		78	70 - 130
o-Xylene	<0.00202	U	0.0996	0.08317		mg/Kg		84	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-14532-11 MSD

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: H-4 (0-3")

Prep Type: Total/NA

Prep Batch: 25110

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00202	U F1	0.0992	0.06892	F1	mg/Kg		69	70 - 130	10	35
Toluene	<0.00202	U	0.0992	0.07014		mg/Kg		70	70 - 130	2	35
Ethylbenzene	<0.00202	U	0.0992	0.06951		mg/Kg		70	70 - 130	7	35
m-Xylene & p-Xylene	<0.00404	U	0.198	0.1422		mg/Kg		72	70 - 130	8	35
o-Xylene	<0.00202	U	0.0992	0.07647		mg/Kg		77	70 - 130	8	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-14532-11 MSD

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: H-4 (0-3")

Prep Type: Total/NA

Prep Batch: 25110

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

Lab Sample ID: MB 880-25410/5-A

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25410

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/12/22 10:53	05/12/22 15:39	1	
Toluene	<0.00200	U	0.00200		mg/Kg		05/12/22 10:53	05/12/22 15:39	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/12/22 10:53	05/12/22 15:39	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/12/22 10:53	05/12/22 15:39	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/12/22 10:53	05/12/22 15:39	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/12/22 10:53	05/12/22 15:39	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				05/12/22 10:53	05/12/22 15:39	1	
1,4-Difluorobenzene (Surr)	97		70 - 130				05/12/22 10:53	05/12/22 15:39	1	

Lab Sample ID: LCS 880-25410/1-A

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25410

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.09746		mg/Kg		97	70 - 130			
Toluene	0.100	0.09527		mg/Kg		95	70 - 130			
Ethylbenzene	0.100	0.09824		mg/Kg		98	70 - 130			
m-Xylene & p-Xylene	0.200	0.2028		mg/Kg		101	70 - 130			
o-Xylene	0.100	0.1101		mg/Kg		110	70 - 130			

	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	106		70 - 130							
1,4-Difluorobenzene (Surr)	99		70 - 130							

Lab Sample ID: LCSD 880-25410/2-A

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25410

			Spike	LCSD	LCSD					%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene			0.100	0.09068		mg/Kg		91	70 - 130	7	35	
Toluene			0.100	0.09342		mg/Kg		93	70 - 130	2	35	
Ethylbenzene			0.100	0.09699		mg/Kg		97	70 - 130	1	35	
m-Xylene & p-Xylene			0.200	0.2022		mg/Kg		101	70 - 130	0	35	
o-Xylene			0.100	0.1092		mg/Kg		109	70 - 130	1	35	
			LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	105		70 - 130									

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QC Sample Results

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-25410/2-A

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25410

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-2271-A-51-F MS

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25410

	Sample	Sample	Spike	MS	MS			%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00201	U	0.0996	0.07938		mg/Kg		80	70 - 130
Toluene	<0.00201	U	0.0996	0.08283		mg/Kg		83	70 - 130
Ethylbenzene	<0.00201	U	0.0996	0.08646		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1824		mg/Kg		92	70 - 130
o-Xylene	<0.00201	U	0.0996	0.1002		mg/Kg		101	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-2271-A-51-G MSD

Matrix: Solid

Analysis Batch: 25413

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25410

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0998	0.09289		mg/Kg		93	70 - 130	16	35
Toluene	<0.00201	U	0.0998	0.09234		mg/Kg		92	70 - 130	11	35
Ethylbenzene	<0.00201	U	0.0998	0.09471		mg/Kg		95	70 - 130	9	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1980		mg/Kg		99	70 - 130	8	35
o-Xylene	<0.00201	U	0.0998	0.1077		mg/Kg		108	70 - 130	7	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-25129/1-A

Matrix: Solid

Analysis Batch: 25066

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25129

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/09/22 21:24		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/09/22 21:24		1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/09/22 21:24		1

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
1-Chlorooctane	99		70 - 130	05/09/22 15:08	05/09/22 21:24		1			
o-Terphenyl	107		70 - 130	05/09/22 15:08	05/09/22 21:24		1			

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QC Sample Results

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-25129/2-A

Matrix: Solid

Analysis Batch: 25066

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25129

Analyte			Spike	LCS	LCS	%Rec					
			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	967.2		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1261		mg/Kg		126	70 - 130		
		LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	116		70 - 130								
o-Terphenyl	121		70 - 130								

Lab Sample ID: LCSD 880-25129/3-A

Matrix: Solid

Analysis Batch: 25066

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25129

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier			Limits	Limit		
Gasoline Range Organics (GRO)-C6-C10			1000	1209	*1	mg/Kg		121	70 - 130	22	20
Diesel Range Organics (Over C10-C28)			1000	1292		mg/Kg		129	70 - 130	2	20
Surrogate	LCSD		Limits								
	%Recovery	Qualifier									
1-Chlorooctane	129		70 - 130								
o-Terphenyl	136	S1+	70 - 130								

Lab Sample ID: 880-14532-2 MS

Matrix: Solid

Analysis Batch: 25066

Client Sample ID: S-1 (6")

Prep Type: Total/NA

Prep Batch: 25129

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	1000	920.8		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	567		1000	1331		mg/Kg		76	70 - 130		
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	104		70 - 130								
o-Terphenyl	100		70 - 130								

Lab Sample ID: 880-14532-2 MSD

Matrix: Solid

Analysis Batch: 25066

Client Sample ID: S-1 (6")

Prep Type: Total/NA

Prep Batch: 25129

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	998	903.2		mg/Kg		91	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	567		998	1296		mg/Kg		73	70 - 130	3	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	102		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-14532-2 MSD

Matrix: Solid

Analysis Batch: 25066

Client Sample ID: S-1 (6")

Prep Type: Total/NA

Prep Batch: 25129

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	98		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25206/1-A

Matrix: Solid

Analysis Batch: 25318

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00		mg/Kg			05/11/22 23:16		1

Lab Sample ID: LCS 880-25206/2-A

Matrix: Solid

Analysis Batch: 25318

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	254.0		mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-25206/3-A

Matrix: Solid

Analysis Batch: 25318

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	257.2		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-14532-1 MS

Matrix: Solid

Analysis Batch: 25318

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

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	3890	F1	2500	6684	F1	mg/Kg		112	90 - 110		

Lab Sample ID: 880-14532-1 MSD

Matrix: Solid

Analysis Batch: 25318

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

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	3890	F1	2500	6641		mg/Kg		110	90 - 110	1	20

Lab Sample ID: 880-14532-11 MS

Matrix: Solid

Analysis Batch: 25318

Client Sample ID: H-4 (0-3")

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	6.23		249	248.4		mg/Kg		97	90 - 110		

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QC Sample Results

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-14532-11 MSD							Client Sample ID: H-4 (0-3")					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 25318												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	6.23		249	258.0		mg/Kg		101	90 - 110	4	20	

QC Association Summary

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 25088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14532-1	S-1 (0-3")	Total/NA	Solid	5035	
880-14532-3	S-1 (12")	Total/NA	Solid	5035	
880-14532-4	S-2 (0-3")	Total/NA	Solid	5035	
880-14532-5	S-2 (6")	Total/NA	Solid	5035	
880-14532-6	S-3 (0-3")	Total/NA	Solid	5035	
880-14532-7	S-3 (6")	Total/NA	Solid	5035	
880-14532-8	H-1 (0-3")	Total/NA	Solid	5035	
880-14532-9	H-2 (0-3")	Total/NA	Solid	5035	
880-14532-10	H-3 (0-3")	Total/NA	Solid	5035	
MB 880-25088/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25088/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25088/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2270-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-2270-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 25110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14532-11	H-4 (0-3")	Total/NA	Solid	5035	
880-14532-12	H-5 (0-3")	Total/NA	Solid	5035	
MB 880-25110/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25110/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25110/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14532-11 MS	H-4 (0-3")	Total/NA	Solid	5035	
880-14532-11 MSD	H-4 (0-3")	Total/NA	Solid	5035	

Analysis Batch: 25224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14532-11	H-4 (0-3")	Total/NA	Solid	8021B	25110
880-14532-12	H-5 (0-3")	Total/NA	Solid	8021B	25110
MB 880-25110/5-A	Method Blank	Total/NA	Solid	8021B	25110
LCS 880-25110/1-A	Lab Control Sample	Total/NA	Solid	8021B	25110
LCSD 880-25110/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25110
880-14532-11 MS	H-4 (0-3")	Total/NA	Solid	8021B	25110
880-14532-11 MSD	H-4 (0-3")	Total/NA	Solid	8021B	25110

Analysis Batch: 25295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14532-1	S-1 (0-3")	Total/NA	Solid	Total BTEX	
880-14532-2	S-1 (6")	Total/NA	Solid	Total BTEX	
880-14532-3	S-1 (12")	Total/NA	Solid	Total BTEX	
880-14532-4	S-2 (0-3")	Total/NA	Solid	Total BTEX	
880-14532-5	S-2 (6")	Total/NA	Solid	Total BTEX	
880-14532-6	S-3 (0-3")	Total/NA	Solid	Total BTEX	
880-14532-7	S-3 (6")	Total/NA	Solid	Total BTEX	
880-14532-8	H-1 (0-3")	Total/NA	Solid	Total BTEX	
880-14532-9	H-2 (0-3")	Total/NA	Solid	Total BTEX	
880-14532-10	H-3 (0-3")	Total/NA	Solid	Total BTEX	
880-14532-11	H-4 (0-3")	Total/NA	Solid	Total BTEX	
880-14532-12	H-5 (0-3")	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Carmona Resources

Job ID: 880-14532-1

Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

SDG: Eddy Co, NM

GC VOA

Analysis Batch: 25306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14532-1	S-1 (0-3")	Total/NA	Solid	8021B	25088
880-14532-3	S-1 (12")	Total/NA	Solid	8021B	25088
880-14532-4	S-2 (0-3")	Total/NA	Solid	8021B	25088
880-14532-5	S-2 (6")	Total/NA	Solid	8021B	25088
880-14532-6	S-3 (0-3")	Total/NA	Solid	8021B	25088
880-14532-7	S-3 (6")	Total/NA	Solid	8021B	25088
880-14532-8	H-1 (0-3")	Total/NA	Solid	8021B	25088
880-14532-9	H-2 (0-3")	Total/NA	Solid	8021B	25088
880-14532-10	H-3 (0-3")	Total/NA	Solid	8021B	25088
MB 880-25088/5-A	Method Blank	Total/NA	Solid	8021B	25088
LCS 880-25088/1-A	Lab Control Sample	Total/NA	Solid	8021B	25088
LCSD 880-25088/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25088
890-2270-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	25088
890-2270-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25088

Prep Batch: 25410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14532-2	S-1 (6")	Total/NA	Solid	5035	
MB 880-25410/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25410/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25410/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2271-A-51-F MS	Matrix Spike	Total/NA	Solid	5035	
890-2271-A-51-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14532-2	S-1 (6")	Total/NA	Solid	8021B	25410
MB 880-25410/5-A	Method Blank	Total/NA	Solid	8021B	25410
LCS 880-25410/1-A	Lab Control Sample	Total/NA	Solid	8021B	25410
LCSD 880-25410/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25410
890-2271-A-51-F MS	Matrix Spike	Total/NA	Solid	8021B	25410
890-2271-A-51-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25410

GC Semi VOA

Analysis Batch: 25066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14532-1	S-1 (0-3")	Total/NA	Solid	8015B NM	25129
880-14532-2	S-1 (6")	Total/NA	Solid	8015B NM	25129
880-14532-3	S-1 (12")	Total/NA	Solid	8015B NM	25129
880-14532-4	S-2 (0-3")	Total/NA	Solid	8015B NM	25129
880-14532-5	S-2 (6")	Total/NA	Solid	8015B NM	25129
880-14532-6	S-3 (0-3")	Total/NA	Solid	8015B NM	25129
880-14532-7	S-3 (6")	Total/NA	Solid	8015B NM	25129
880-14532-8	H-1 (0-3")	Total/NA	Solid	8015B NM	25129
880-14532-9	H-2 (0-3")	Total/NA	Solid	8015B NM	25129
880-14532-10	H-3 (0-3")	Total/NA	Solid	8015B NM	25129
880-14532-11	H-4 (0-3")	Total/NA	Solid	8015B NM	25129
880-14532-12	H-5 (0-3")	Total/NA	Solid	8015B NM	25129
MB 880-25129/1-A	Method Blank	Total/NA	Solid	8015B NM	25129
LCS 880-25129/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25129

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QC Association Summary

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 25066 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-25129/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25129
880-14532-2 MS	S-1 (6")	Total/NA	Solid	8015B NM	25129
880-14532-2 MSD	S-1 (6")	Total/NA	Solid	8015B NM	25129

Prep Batch: 25129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14532-1	S-1 (0-3")	Total/NA	Solid	8015NM Prep	
880-14532-2	S-1 (6")	Total/NA	Solid	8015NM Prep	
880-14532-3	S-1 (12")	Total/NA	Solid	8015NM Prep	
880-14532-4	S-2 (0-3")	Total/NA	Solid	8015NM Prep	
880-14532-5	S-2 (6")	Total/NA	Solid	8015NM Prep	
880-14532-6	S-3 (0-3")	Total/NA	Solid	8015NM Prep	
880-14532-7	S-3 (6")	Total/NA	Solid	8015NM Prep	
880-14532-8	H-1 (0-3")	Total/NA	Solid	8015NM Prep	
880-14532-9	H-2 (0-3")	Total/NA	Solid	8015NM Prep	
880-14532-10	H-3 (0-3")	Total/NA	Solid	8015NM Prep	
880-14532-11	H-4 (0-3")	Total/NA	Solid	8015NM Prep	
880-14532-12	H-5 (0-3")	Total/NA	Solid	8015NM Prep	
MB 880-25129/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25129/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25129/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14532-2 MS	S-1 (6")	Total/NA	Solid	8015NM Prep	
880-14532-2 MSD	S-1 (6")	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14532-1	S-1 (0-3")	Total/NA	Solid	8015 NM	
880-14532-2	S-1 (6")	Total/NA	Solid	8015 NM	
880-14532-3	S-1 (12")	Total/NA	Solid	8015 NM	
880-14532-4	S-2 (0-3")	Total/NA	Solid	8015 NM	
880-14532-5	S-2 (6")	Total/NA	Solid	8015 NM	
880-14532-6	S-3 (0-3")	Total/NA	Solid	8015 NM	
880-14532-7	S-3 (6")	Total/NA	Solid	8015 NM	
880-14532-8	H-1 (0-3")	Total/NA	Solid	8015 NM	
880-14532-9	H-2 (0-3")	Total/NA	Solid	8015 NM	
880-14532-10	H-3 (0-3")	Total/NA	Solid	8015 NM	
880-14532-11	H-4 (0-3")	Total/NA	Solid	8015 NM	
880-14532-12	H-5 (0-3")	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 25206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14532-1	S-1 (0-3")	Soluble	Solid	DI Leach	
880-14532-2	S-1 (6")	Soluble	Solid	DI Leach	
880-14532-3	S-1 (12")	Soluble	Solid	DI Leach	
880-14532-4	S-2 (0-3")	Soluble	Solid	DI Leach	
880-14532-5	S-2 (6")	Soluble	Solid	DI Leach	
880-14532-6	S-3 (0-3")	Soluble	Solid	DI Leach	
880-14532-7	S-3 (6")	Soluble	Solid	DI Leach	
880-14532-8	H-1 (0-3")	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-14532-1

Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 25206 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14532-9	H-2 (0-3")	Soluble	Solid	DI Leach	
880-14532-10	H-3 (0-3")	Soluble	Solid	DI Leach	
880-14532-11	H-4 (0-3")	Soluble	Solid	DI Leach	
880-14532-12	H-5 (0-3")	Soluble	Solid	DI Leach	
MB 880-25206/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25206/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25206/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14532-1 MS	S-1 (0-3")	Soluble	Solid	DI Leach	
880-14532-1 MSD	S-1 (0-3")	Soluble	Solid	DI Leach	
880-14532-11 MS	H-4 (0-3")	Soluble	Solid	DI Leach	
880-14532-11 MSD	H-4 (0-3")	Soluble	Solid	DI Leach	

Analysis Batch: 25318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14532-1	S-1 (0-3")	Soluble	Solid	300.0	25206
880-14532-2	S-1 (6")	Soluble	Solid	300.0	25206
880-14532-3	S-1 (12")	Soluble	Solid	300.0	25206
880-14532-4	S-2 (0-3")	Soluble	Solid	300.0	25206
880-14532-5	S-2 (6")	Soluble	Solid	300.0	25206
880-14532-6	S-3 (0-3")	Soluble	Solid	300.0	25206
880-14532-7	S-3 (6")	Soluble	Solid	300.0	25206
880-14532-8	H-1 (0-3")	Soluble	Solid	300.0	25206
880-14532-9	H-2 (0-3")	Soluble	Solid	300.0	25206
880-14532-10	H-3 (0-3")	Soluble	Solid	300.0	25206
880-14532-11	H-4 (0-3")	Soluble	Solid	300.0	25206
880-14532-12	H-5 (0-3")	Soluble	Solid	300.0	25206
MB 880-25206/1-A	Method Blank	Soluble	Solid	300.0	25206
LCS 880-25206/2-A	Lab Control Sample	Soluble	Solid	300.0	25206
LCSD 880-25206/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25206
880-14532-1 MS	S-1 (0-3")	Soluble	Solid	300.0	25206
880-14532-1 MSD	S-1 (0-3")	Soluble	Solid	300.0	25206
880-14532-11 MS	H-4 (0-3")	Soluble	Solid	300.0	25206
880-14532-11 MSD	H-4 (0-3")	Soluble	Solid	300.0	25206

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-14532-1

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

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	25088	05/09/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/11/22 21:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25295	05/10/22 19:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25237	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/09/22 23:31	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		10			25318	05/11/22 23:43	CH	XEN MID

Client Sample ID: S-1 (6")

Lab Sample ID: 880-14532-2

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25410	05/12/22 10:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25413	05/12/22 16:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25295	05/10/22 19:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25237	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/09/22 22:28	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		5			25318	05/12/22 00:11	CH	XEN MID

Client Sample ID: S-1 (12")

Lab Sample ID: 880-14532-3

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	25088	05/09/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/11/22 22:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25295	05/10/22 19:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25237	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/09/22 23:52	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		5			25318	05/12/22 00:20	CH	XEN MID

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

Lab Sample ID: 880-14532-4

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

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	25088	05/09/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/11/22 22:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25295	05/10/22 19:15	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-14532-4

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

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			25237	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/10/22 00:13	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		1			25318	05/12/22 00:29	CH	XEN MID

Client Sample ID: S-2 (6")

Lab Sample ID: 880-14532-5

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	25088	05/09/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/11/22 23:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25295	05/10/22 19:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25237	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/10/22 00:34	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		1			25318	05/12/22 00:39	CH	XEN MID

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

Lab Sample ID: 880-14532-6

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

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	25088	05/09/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/11/22 23:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25295	05/10/22 19:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25237	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/10/22 00:54	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		1			25318	05/12/22 01:06	CH	XEN MID

Client Sample ID: S-3 (6")

Lab Sample ID: 880-14532-7

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

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	25088	05/09/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/12/22 00:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25295	05/10/22 19:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25237	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/10/22 01:15	SM	XEN MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

Client Sample ID: S-3 (6")

Date Collected: 05/07/22 00:00

Date Received: 05/09/22 12:00

Lab Sample ID: 880-14532-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		1			25318	05/12/22 01:16	CH	XEN MID

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

Date Collected: 05/07/22 00:00

Date Received: 05/09/22 12:00

Lab Sample ID: 880-14532-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	25088	05/09/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/12/22 00:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25295	05/10/22 19:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25237	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/10/22 01:36	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		1			25318	05/12/22 01:25	CH	XEN MID

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

Date Collected: 05/07/22 00:00

Date Received: 05/09/22 12:00

Lab Sample ID: 880-14532-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	25088	05/09/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/12/22 00:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25295	05/10/22 19:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25237	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/10/22 01:57	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		1			25318	05/12/22 01:34	CH	XEN MID

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

Date Collected: 05/07/22 00:00

Date Received: 05/09/22 12:00

Lab Sample ID: 880-14532-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	25088	05/09/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/12/22 01:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25295	05/10/22 19:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25237	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/10/22 02:18	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		1			25318	05/12/22 01:43	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

Client Sample ID: H-4 (0-3")

Lab Sample ID: 880-14532-11

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	25110	05/09/22 13:08	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25224	05/10/22 12:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25295	05/10/22 19:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25237	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/10/22 02:59	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		1			25318	05/12/22 01:52	CH	XEN MID

Client Sample ID: H-5 (0-3")

Lab Sample ID: 880-14532-12

Date Collected: 05/07/22 00:00

Matrix: Solid

Date Received: 05/09/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	25110	05/09/22 13:08	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25224	05/10/22 12:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25295	05/10/22 19:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25237	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/10/22 03:20	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		1			25318	05/12/22 02:20	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

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	T104704400-21-22	06-30-22

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

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

Method Summary

Client: Carmona Resources

Job ID: 880-14532-1

Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

SDG: Eddy Co, NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Carmona Resources
Project/Site: Quien Sabe 25 Federal 1H (03.23.22)

Job ID: 880-14532-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-14532-1	S-1 (0-3")	Solid	05/07/22 00:00	05/09/22 12:00
880-14532-2	S-1 (6")	Solid	05/07/22 00:00	05/09/22 12:00
880-14532-3	S-1 (12")	Solid	05/07/22 00:00	05/09/22 12:00
880-14532-4	S-2 (0-3")	Solid	05/07/22 00:00	05/09/22 12:00
880-14532-5	S-2 (6")	Solid	05/07/22 00:00	05/09/22 12:00
880-14532-6	S-3 (0-3")	Solid	05/07/22 00:00	05/09/22 12:00
880-14532-7	S-3 (6")	Solid	05/07/22 00:00	05/09/22 12:00
880-14532-8	H-1 (0-3")	Solid	05/07/22 00:00	05/09/22 12:00
880-14532-9	H-2 (0-3")	Solid	05/07/22 00:00	05/09/22 12:00
880-14532-10	H-3 (0-3")	Solid	05/07/22 00:00	05/09/22 12:00
880-14532-11	H-4 (0-3")	Solid	05/07/22 00:00	05/09/22 12:00
880-14532-12	H-5 (0-3")	Solid	05/07/22 00:00	05/09/22 12:00

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Work Order No: 14532

Page 1 of 2

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address	310 W Wall St Ste 415	Address	15 W London Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving NM 88256
Phone	432-813-6823	Email	jacqui.harris@conocophillips.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Unperturb <input type="checkbox"/>
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other

Project Name	Quien Sabe 25 Federal 1H (03 23 22)		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes							
Project Number	1048		<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush														None NO	DI Water H ₂ O						
Project Location	Eddy Co. NM		Due Date	72 Hour														Cool Cool	MeOH Me						
Sampler's Name	CRM		TAT starts the day received by the lab if received by 4 30pm															HCL HC	HNO ₃ HN						
PO #																	H ₂ SO ₄ H ₂	NaOH Na							
SAMPLE RECEIPT			Temp Blank	Yes <input checked="" type="checkbox"/> No	Wet Ice	Yes <input checked="" type="checkbox"/> No													H ₃ PO ₄ HP						
Received Intact:	Yes <input checked="" type="checkbox"/> No		Thermometer ID	JL8														NaHSO ₄ NABIS							
Cooler Custody Seals	Yes <input checked="" type="checkbox"/> No		Correction Factor	-2														Na ₂ S ₂ O ₃ NaSO ₃							
Sample Custody Seals	Yes <input checked="" type="checkbox"/> No		Temperature Reading	35.3														Zn Acetate+NaOH Zn							
Total Containers			Corrected Temperature	33.3														NaOH+Ascorbic Acid SAPC							
Sample Identification			Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments				
S-1 (0-3")			5/7/2022		X		G	1	X	X	X	X													
S-1 (6")			5/7/2022		X		G	1	X	X	X	X													
S-1 (12")			5/7/2022		X		G	1	X	X	X	X													
S-2 (0-3")			5/7/2022		X		G	1	X	X	X	X													
S-2 (6")			5/7/2022		X		G	1	X	X	X	X													
S-3 (0-3")			5/7/2022		X		G	1	X	X	X	X													
S-3 (6")			5/7/2022		X		G	1	X	X	X	X													
H-1 (0-3")			5/7/2022		X		G	1	X	X	X	X													
H-2 (0-3")			5/7/2022		X		G	1	X	X	X	X													
H-3 (0-3")			5/7/2022		X		G	1	X	X	X	X													



860-14532 Chain of Custody

Relinquished by (Signature)		Date/Time	Received by (Signature)		Date/Time
		5/6/22 1200			5/9/22 1200

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address	310 W Wall St Ste 415	Address	15 W London Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving NM 88256
Phone	432-813-6823	Email	jacqui.harris@conocophillips.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other	

Work Order No: 14532

[illegible]

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-14532-1

SDG Number: Eddy Co, NM

Login Number: 14532

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

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



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

June 07, 2022

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: QUIEN SABE 25 FEDERAL 1H

Enclosed are the results of analyses for samples received by the laboratory on 06/06/22 12:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	06/06/2022	Sampling Date:	06/06/2022
Reported:	06/07/2022	Sampling Type:	Soil
Project Name:	QUIEN SABE 25 FEDERAL 1H	Sampling Condition:	Cool & Intact
Project Number:	1048 (03.23.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: CS - 1 (2') (H222385-01)

BTX 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	06/06/2022	ND	2.04	102	2.00	5.47	
Toluene*	<0.050	0.050	06/06/2022	ND	2.05	102	2.00	5.77	
Ethylbenzene*	<0.050	0.050	06/06/2022	ND	1.91	95.6	2.00	5.61	
Total Xylenes*	<0.150	0.150	06/06/2022	ND	5.97	99.4	6.00	5.57	
Total BTX	<0.300	0.300	06/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	06/06/2022	ND	432	108	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	06/06/2022	ND	179	89.5	200	8.21	
DRO >C10-C28*	<10.0	10.0	06/06/2022	ND	196	98.0	200	0.820	
EXT DRO >C28-C36	<10.0	10.0	06/06/2022	ND					

Surrogate: 1-Chlorooctane 76.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 06/06/2022
 Reported: 06/07/2022
 Project Name: QUIEN SABE 25 FEDERAL 1H
 Project Number: 1048 (03.23.22)
 Project Location: COG - EDDY CO NM

Sampling Date: 06/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 2 (2') (H222385-02)

BTX 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	06/06/2022	ND	2.04	102	2.00	5.47	
Toluene*	<0.050	0.050	06/06/2022	ND	2.05	102	2.00	5.77	
Ethylbenzene*	<0.050	0.050	06/06/2022	ND	1.91	95.6	2.00	5.61	
Total Xylenes*	<0.150	0.150	06/06/2022	ND	5.97	99.4	6.00	5.57	
Total BTX	<0.300	0.300	06/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/06/2022	ND	432	108	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	06/07/2022	ND	179	89.5	200	8.21	
DRO >C10-C28*	<10.0	10.0	06/07/2022	ND	196	98.0	200	0.820	
EXT DRO >C28-C36	<10.0	10.0	06/07/2022	ND					

Surrogate: 1-Chlorooctane 86.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 06/06/2022
 Reported: 06/07/2022
 Project Name: QUIEN SABE 25 FEDERAL 1H
 Project Number: 1048 (03.23.22)
 Project Location: COG - EDDY CO NM

Sampling Date: 06/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 1 (2') (H222385-03)

BTX 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	06/06/2022	ND	2.04	102	2.00	5.47	
Toluene*	<0.050	0.050	06/06/2022	ND	2.05	102	2.00	5.77	
Ethylbenzene*	<0.050	0.050	06/06/2022	ND	1.91	95.6	2.00	5.61	
Total Xylenes*	<0.150	0.150	06/06/2022	ND	5.97	99.4	6.00	5.57	
Total BTX	<0.300	0.300	06/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/06/2022	ND	432	108	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	06/07/2022	ND	179	89.5	200	8.21	
DRO >C10-C28*	<10.0	10.0	06/07/2022	ND	196	98.0	200	0.820	
EXT DRO >C28-C36	<10.0	10.0	06/07/2022	ND					

Surrogate: 1-Chlorooctane 95.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 06/06/2022
 Reported: 06/07/2022
 Project Name: QUIEN SABE 25 FEDERAL 1H
 Project Number: 1048 (03.23.22)
 Project Location: COG - EDDY CO NM

Sampling Date: 06/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 2 (2') (H222385-04)

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	06/06/2022	ND	2.04	102	2.00	5.47	
Toluene*	<0.050	0.050	06/06/2022	ND	2.05	102	2.00	5.77	
Ethylbenzene*	<0.050	0.050	06/06/2022	ND	1.91	95.6	2.00	5.61	
Total Xylenes*	<0.150	0.150	06/06/2022	ND	5.97	99.4	6.00	5.57	
Total BTEx	<0.300	0.300	06/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/06/2022	ND	432	108	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	06/07/2022	ND	179	89.5	200	8.21	
DRO >C10-C28*	<10.0	10.0	06/07/2022	ND	196	98.0	200	0.820	
EXT DRO >C28-C36	<10.0	10.0	06/07/2022	ND					

Surrogate: 1-Chlorooctane 78.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 06/06/2022
 Reported: 06/07/2022
 Project Name: QUIEN SABE 25 FEDERAL 1H
 Project Number: 1048 (03.23.22)
 Project Location: COG - EDDY CO NM

Sampling Date: 06/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 3 (2') (H222385-05)

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	06/06/2022	ND	2.04	102	2.00	5.47		
Toluene*	<0.050	0.050	06/06/2022	ND	2.05	102	2.00	5.77		
Ethylbenzene*	<0.050	0.050	06/06/2022	ND	1.91	95.6	2.00	5.61		
Total Xylenes*	<0.150	0.150	06/06/2022	ND	5.97	99.4	6.00	5.57		
Total BTEx	<0.300	0.300	06/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	06/06/2022	ND	432	108	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	06/07/2022	ND	179	89.5	200	8.21	
DRO >C10-C28*	<10.0	10.0	06/07/2022	ND	196	98.0	200	0.820	
EXT DRO >C28-C36	<10.0	10.0	06/07/2022	ND					

Surrogate: 1-Chlorooctane 84.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 06/06/2022
 Reported: 06/07/2022
 Project Name: QUIEN SABE 25 FEDERAL 1H
 Project Number: 1048 (03.23.22)
 Project Location: COG - EDDY CO NM

Sampling Date: 06/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 4 (2') (H222385-06)

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	06/06/2022	ND	2.04	102	2.00	5.47		
Toluene*	<0.050	0.050	06/06/2022	ND	2.05	102	2.00	5.77		
Ethylbenzene*	<0.050	0.050	06/06/2022	ND	1.91	95.6	2.00	5.61		
Total Xylenes*	<0.150	0.150	06/06/2022	ND	5.97	99.4	6.00	5.57		
Total BTEX	<0.300	0.300	06/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	06/06/2022	ND	432	108	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	06/07/2022	ND	179	89.5	200	8.21	
DRO >C10-C28*	33.3	10.0	06/07/2022	ND	196	98.0	200	0.820	
EXT DRO >C28-C36	<10.0	10.0	06/07/2022	ND					

Surrogate: 1-Chlorooctane 77.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Work Order No.:

H22238

Page ____ of ____

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

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

CONDITIONS

Action 116258

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 116258
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	8/25/2022