

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2228544134
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: Addison Guelker

Title: Environmental Tech

Signature: 

Date: 06/05/23

email: addisong@forl.com

Telephone: 432-687-1777

OCD Only

Received by: Robert Hamlet

Date: 10/31/2023

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

Closure Approved by: Robert Hamlet

Date: 10/31/2023

Printed Name: Robert Hamlet

Title: Environmental Specialist - Advanced



SITE INFORMATION

Closure Report
Shell Federal #2 SWD Disposal Line
Incident # NAPP2228544134
Eddy County, New Mexico
Unit A Sec 29 T20S R25E
32.551779°, -104.498698°

Produced Water Release
Point of Release: Corroded Disposal Line
Release Date: 10.04.22
Volume Released: 80 barrels of Produced Water
Volume Recovered: 0 barrels of Produced Water

CARMONA RESOURCES



Prepared for:
Fasken Oil and Ranch, Ltd
6101 Holiday Hill Road
Midland, TX 79707

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

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June 4, 2023

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

**Re: Closure Report
Shell Federal #2 SWD Disposal Line
Fasken Oil and Ranch, Ltd
Incident # NAPP2228544134
Site Location: Unit A, S29, T20S, R25E
(Lat 32.551779°, Long -104.498698°)
Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Fasken Oil and Ranch, Ltd. (Fasken), Carmona Resources, LLC has prepared this letter to document site activities for the Shell Federal #2 SWD Disposal Line. The site is located at 32.551779°, -104.498698° within Unit A, S29, T20S, R25E, 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 October 4, 2022, due to a corroded disposal line. It released approximately eighty (80) barrels of produced water, and zero (0) barrels were recovered. Refer to Figure 3. The initial C-141 form is attached in Appendix C.

On February 20, 2023, a 400 sq ft confirmation sampling variance was approved by the NMOCD. See Appendix C for the correspondence.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one known water source within a 0.50-mile radius of the location. The well is located approximately 0.50 miles Northwest of the site in S20, T20S, R25E and was drilled in 2003. The well has a reported depth to groundwater of 218.03' below ground surface (ft bgs). A copy of the associated Point of Diversion Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

- Benzene: 10 milligrams per kilogram (mg/kg).

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Midland, Texas 79701
432.813.1992



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

4.0 Site Assessment Activities

Initial Assessment

On October 24, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts from the release. Five (5) sample points and six (6) horizontal samples were advanced to depths ranging from the surface to 4' bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Vertical Delineation

Vertical delineation was achieved for the areas of S-1, S-3, and S-5 and was below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. However, the areas of S-2 and S-4 vertical delineation was not achieved due to chloride concentration ranging from 1,160 mg/kg to 2,450 mg/kg. Refer to Table 1.

Horizontal Delineation

The areas of H-1 through H-6 were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

5.0 Remediation Activities

On January 23, 2023, Fasken personnel was on site to collect one (1) bottom hole sample (BH) and four (4) sidewall samples (SW-N, SW-S, SW-W, SW-E) in the excavated area. The sample locations are shown in Figure 4A. Refer to Table 2.

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on May 8, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 was excavated to a depth of 1.5' below the surface, the area of S-2, S-4, and S-5 was excavated to a depth of 4.0' below the surface, and the area of S-3 was excavated to a depth of 3.0' below the surface to remove all the impacted soils. A total of eleven (11) floor confirmation samples were collected (CS-1 through CS-11), and nineteen (19) sidewall samples (SW-1 through SW-19) were collected every 400 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 4500.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4B.



All final confirmation samples were below the reclamation and regulatory requirements for TPH, BTEX, and chloride. Refer to Table 3.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 810 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

Based on the final laboratory data, it indicates that no further action is required at the site. If you have any questions regarding this report or need additional information, please contact us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

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

Mike Carmona
Environmental Manager

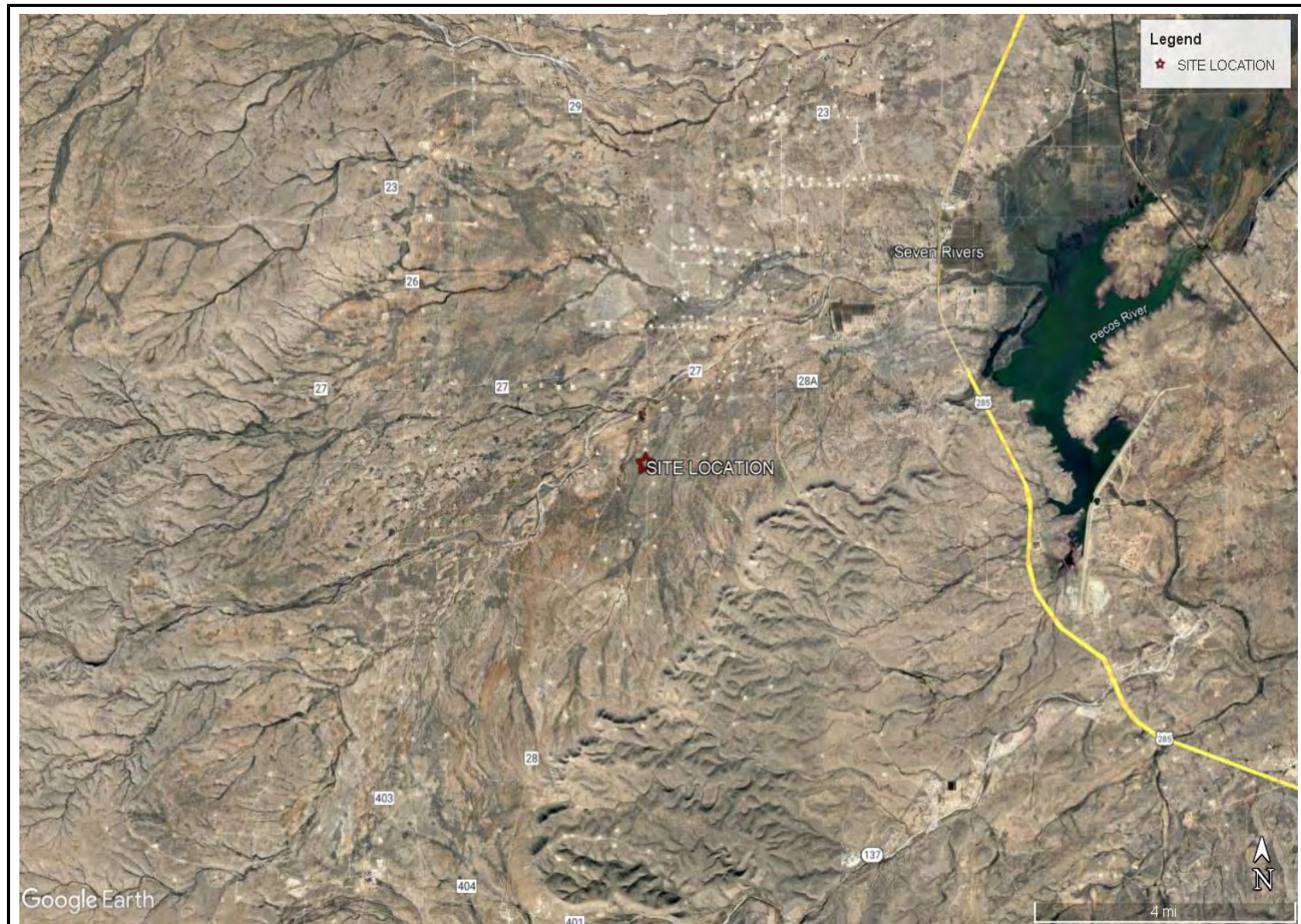
A handwritten signature in black ink, appearing to read "Conner Moehring".

Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES

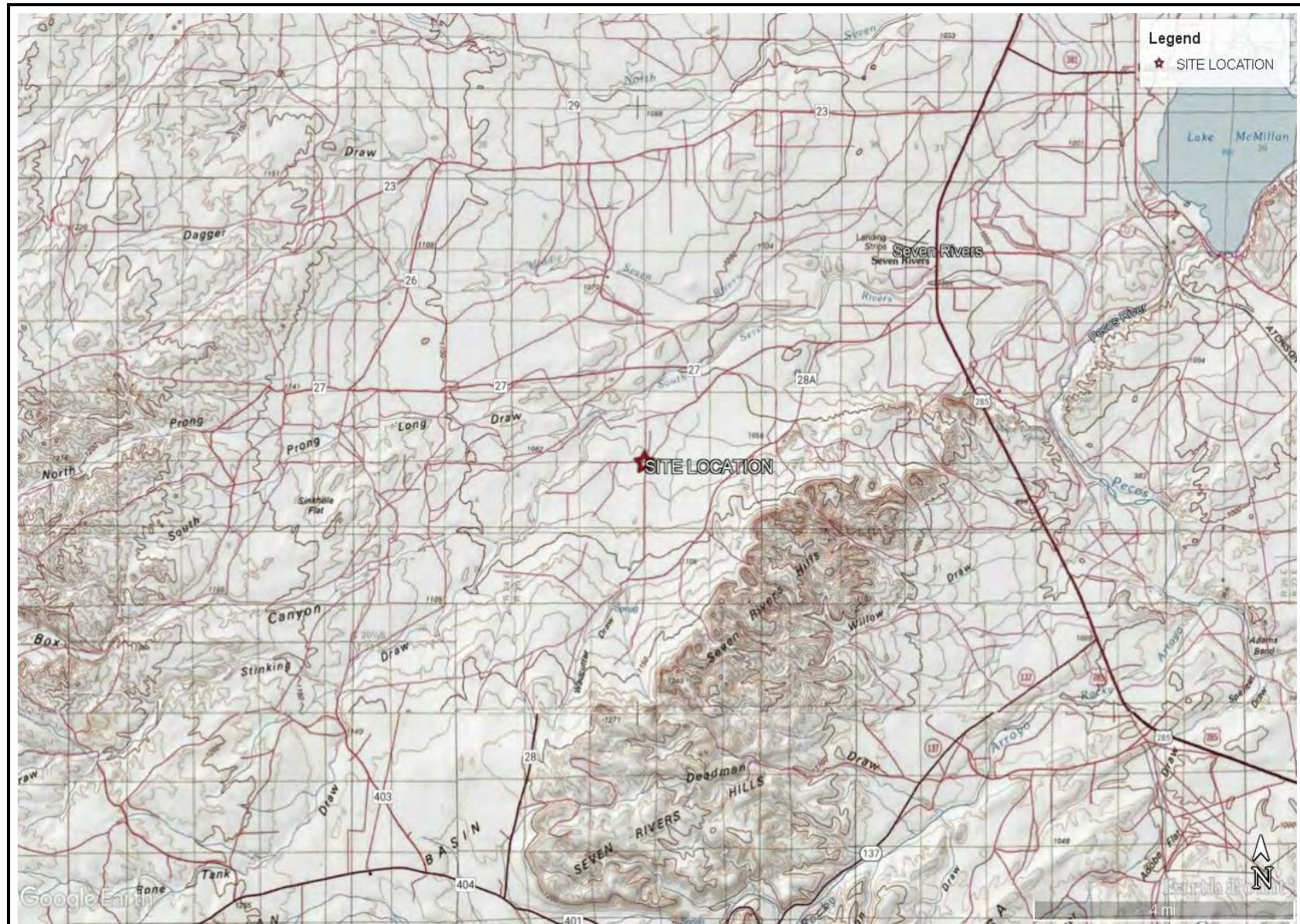




SITE OVERVIEW MAP
FASKEN OIL AND RANCH
SHELL FEDERAL #2 SWD DISPOSAL LINE
EDDY COUNTY, NEW MEXICO
32.551779°, -104.498698°



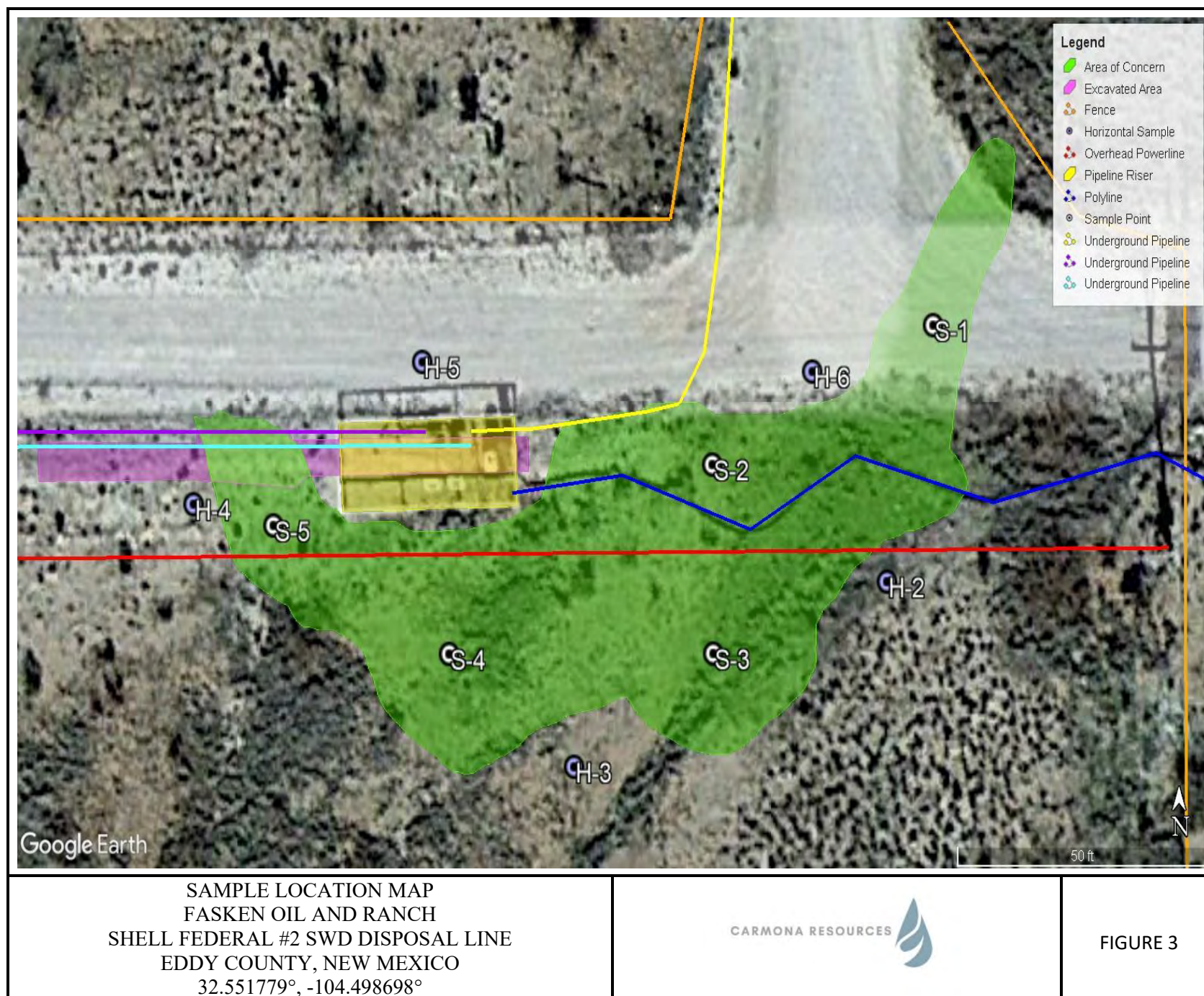
FIGURE 1



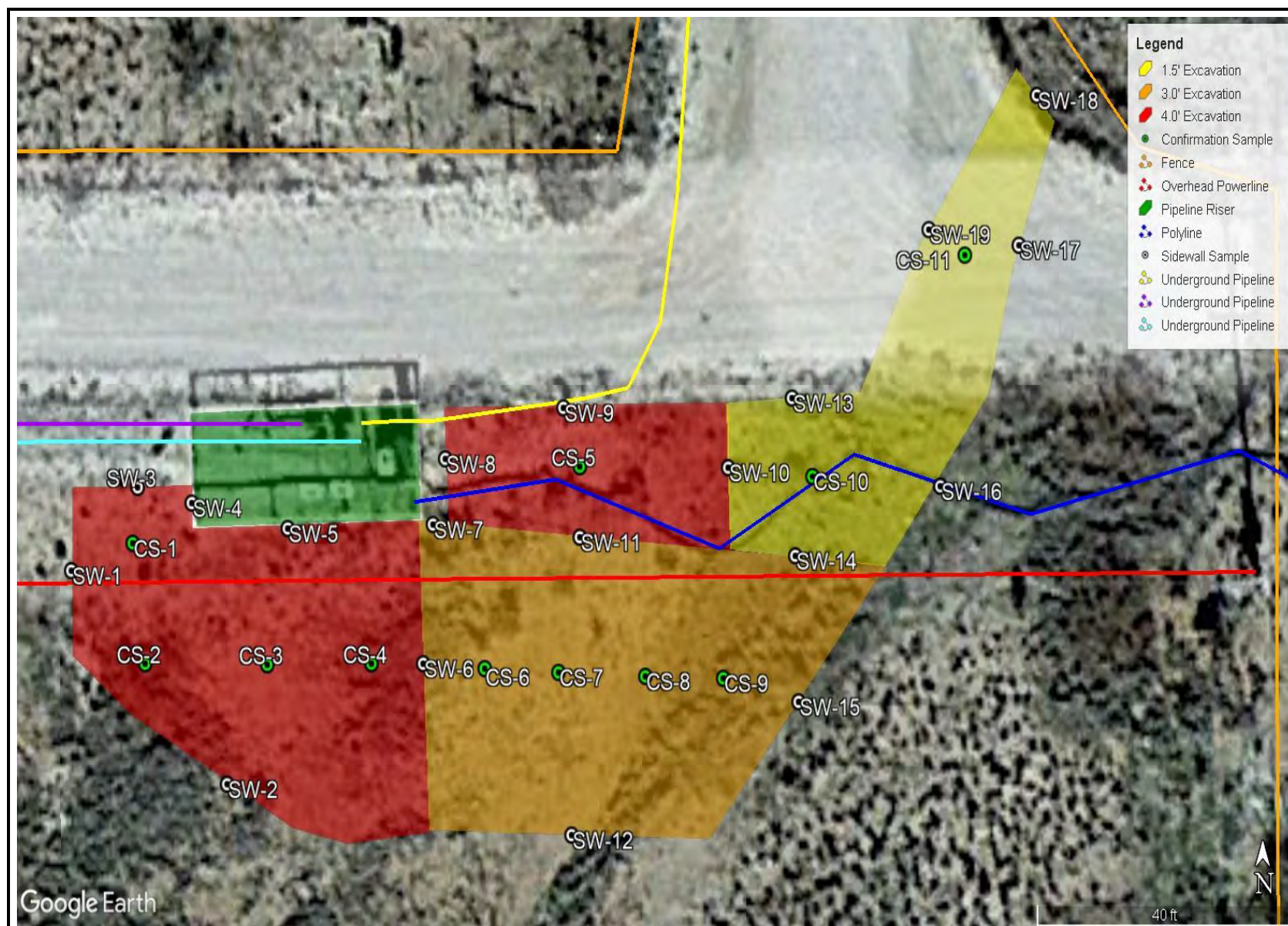
TOPOGRAPHIC MAP
FASKEN OIL AND RANCH
SHELL FEDERAL #2 SWD DISPOSAL LINE
EDDY COUNTY, NEW MEXICO
32.551779°, -104.498698°



FIGURE 2







EXCAVATION MAP
 FASKEN OIL AND RANCH
 SHELL FEDERAL #2 SWD DISPOSAL LINE
 EDDY COUNTY, NEW MEXICO
 32.551779°, -104.498698°



FIGURE 4B

APPENDIX A

CARMONA RESOURCES



Table 1
Fasken Oil and Ranch
Shell Federal #2 SWD Disposal Line
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	10/24/2022	0-1	<49.8	91.2	<49.8	91.2	<0.201	<0.201	<0.201	<0.402	<0.402	18,300
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	163
	"	2.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	120
S-2	10/24/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,240
	"	1.5	<49.9	<49.9	<49.9	<49.9	0.00275	<0.00199	<0.00199	<0.00398	0.00507	2,270
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,540
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,150
S-3	10/24/2022	0-1	<50.0	315	<50.0	315	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	14,300
	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	10,100
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,310
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	160
S-4	10/24/2022	0-1	170	2,610	<50.0	2,780	<0.0992	<0.0992	0.106	0.439	0.545	4,330
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	10,400
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	0.00340	0.00801	0.0114	12,400
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	8,490
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	182
S-5	10/24/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00201	0.00256	<0.00201	<0.00402	<0.00402	2,450
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	2,150
	"	2.0	<50.0	<50.0	<50.0	<50.0	0.00253	<0.00199	<0.00199	<0.00398	<0.00398	1,600
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,160
H-1	10/24/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<4.98
H-2	10/24/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<4.96
H-3	10/24/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.99
H-4	10/24/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.97
H-5	10/24/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	16.5
H-6	10/24/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<4.18
Regulatory Criteria ^A			100 mg/kg				10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(H) Horizontal

(S) Sample Point


 Removed

Table 2
Fasken Oil and Ranch
Shell Federal #2 Disposal Line
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						
BH-1	1/23/2023	4.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5.02
SW-N	1/23/2023	4.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<4.97
SW-E	1/23/2023	4.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	36.5
SW-S	1/23/2023	4.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	52.7
SW-W	1/23/2023	4.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	87.9
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

(BH) Bottom Hole Sample

(SW) Sidewall Sample

Table 3
Fasken Oil and Ranch
Shell Federal #2 Disposal Line
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	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-2	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-3	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	448
CS-4	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-5	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
CS-6	5/12/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-7	5/12/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
CS-8	5/12/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-9	5/12/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-10	5/12/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-11	5/12/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(CS) Confirmation Sample

Table 3
Fasken Oil and Ranch
Shell Federal #2 Disposal Line
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						
SW-1	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-2	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-3	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-4	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-5	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-6	5/12/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
SW-7	5/12/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-8	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-9	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-10	5/12/2023	2.5	11.1	<10.0	<10.0	11.1	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-11	5/12/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-12	5/12/2023	3.0	10.8	<10.0	<10.0	10.8	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-13	5/12/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-14	5/12/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-15	5/12/2023	3.0	11.5	<10.0	<10.0	11.5	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-16	5/12/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-17	5/12/2023	1.5	11	<10.0	<10.0	11	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-18	5/12/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-19	5/12/2023	1.5	10.6	<10.0	<10.0	10.6	<0.050	<0.050	<0.050	<0.150	<0.300	192
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

(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG**Fasken Oil and Ranch****Photograph No. 1**

Facility: Shell Federal #2 SWD Disposal Line

County: Eddy County, New Mexico

Description:

View West, area of CS-1 through CS-4.

**Photograph No. 2**

Facility: Shell Federal #2 SWD Disposal Line

County: Eddy County, New Mexico

Description:

View East, area of CS-1 through CS-4.

**Photograph No. 3**

Facility: Shell Federal #2 SWD Disposal Line

County: Eddy County, New Mexico

Description:

View East, area of CS-5.



PHOTOGRAPHIC LOG

Fasken Oil and Ranch

Photograph No. 4

Facility: Shell Federal #2 SWD Disposal Line

County: Eddy County, New Mexico

Description:
View West, area of CS-5.



Photograph No. 5

Facility: Shell Federal #2 SWD Disposal Line

County: Eddy County, New Mexico

Description:
View Northeast, area of CS-6 through CS-9.



Photograph No. 6

Facility: Shell Federal #2 SWD Disposal Line

County: Eddy County, New Mexico

Description:
View West, area of CS-6 though CS-10.



PHOTOGRAPHIC LOG**Fasken Oil and Ranch****Photograph No. 7**

Facility: Shell Federal #2 SWD Disposal Line

County: Eddy County, New Mexico

Description:

View Southeast, half of area of CS-11.

**Photograph No. 8**

Facility: Shell Federal #2 SWD Disposal Line

County: Eddy County, New Mexico

Description:

View Northeast, half of area of CS-11.



APPENDIX C

CARMONA RESOURCES



District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 150438

QUESTIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 150438
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source <i>Please answer all of the questions in this group.</i>	
Site Name	Shell Federal 2 SWD Disposal Line
Date Release Discovered	10/04/2022
Surface Owner	Federal

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

Nature and Volume of Release <i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Other (Specify) Produced Water Released: 80 BBL Recovered: 0 BBL Lost: 80 BBL]
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Disposal line was corroded that goes to the Shell Federal 2 SWD. The spill happened 3.3 Northeast of SWD battery.

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QUESTIONS, Page 2

Action 150438

QUESTIONS (continued)

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 150438
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by 19.15.29.7(A) NMAC	Yes, major release.
Reasons why this would be considered a submission for a notification of a major release	<ul style="list-style-type: none"> Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD, by whom	Addison Guelker
If YES, was immediate notice given to the OCD, to whom	ocd.enviro@state.nm.us and blm_nm_cfo_spill@blm.gov
If YES, was immediate notice given to the OCD, when	10/05/2022
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	email
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	False
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	On a flowline so there were no berms to keep it from dissipating.

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 prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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ACKNOWLEDGMENTS

Action 150438

ACKNOWLEDGMENTS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 150438
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
<input checked="" type="checkbox"/>	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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CONDITIONS

Action 150438

CONDITIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 150438
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
along	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	10/12/2022

***** LIQUID SPILLS - VOLUME CALCULATIONS *****

Location of spill: Shell Fed #2 SWD Disposal Line

Date of Spill: 4-Oct-2022

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box, flowline, tank battery, production vessel, transfer pump, or storage tank place an "X" here: ☒

Input Data:

If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here: OIL: 0.0 BBL WATER: 0.0 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations							Standing Liquid Calculations						
Total Surface Area		width	length	wet soil			Standing Liquid Area		width	length	liquid depth		oil (%)
				depth	oil (%)								
Rectangle Area #1	30 ft		19 ft	X	6.00 in	0%	Rectangle Area #1	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #2	27 ft	X	39 0	X	6.00 in	0%	Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #3	39 ft	X	4 ft	X	6.00 in	0%	Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	39 ft	X	13 ft	X	6 in	0%	Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	76 ft	X	54 ft	X	6 in	0%	Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

okay

production system leak - DAILY PRODUCTION DATA REQUIRED

Average Daily Production: Oil 0 BBL Water 0 BBL 0 Gas (MCFD)

Total Hydrocarbon Content in gas: 0% (percentage)

Did leak occur before the separator?: ☒ YES ☒ N/A (place an "X")

H2S Content in Produced Gas: 0 PPM

H2S Content in Tank Vapors: 0 PPM

Amount of Free Liquid Recovered: 0 BBL okay

Percentage of Oil in Free Liquid Recovered: 0% (percentage)

Liquid holding factor *: 0.14 gal per gal

Use the following when the spill wets the grains of the soil.

* Sand = 0.08 gallon (gal.) liquid per gal. volume of soil.

* Gravelly (caliche) loam = 0.14 gal. liquid per gal. volume of soil.

* Sandy clay loam soil = 0.14 gal liquid per gal. volume of soil.

* Clay loam = 0.16 gal. liquid per gal. volume of soil.

Use the following when the liquid completely fills the pore space of the soil:

Occurs when the spill soaked soil is contained by barriers, natural (or not).

* Clay loam = 0.20 gal. liquid per gal. volume of soil.

* Gravelly (caliche) loam = 0.25 gal. liquid per gal. volume of soil.

* Sandy loam = 0.5 gal. liquid per gal. volume of soil.

Total Solid/Liquid Volume:	6,390 sq. ft.	3,195 cu. ft.	cu. ft.	Total Free Liquid Volume:	sq. ft.	cu. ft.	cu. ft.
Estimated Volumes Spilled				Estimated Production Volumes Lost			
Liquid in Soil:	79.7 BBL	OIL	0.0 BBL	Estimated Production Spilled:	H2O	0.0 BBL	OIL
Free Liquid:	0.0 BBL		0.0 BBL				0.0 BBL
Totals:	79.7 BBL		0.0 BBL	Estimated Surface Damage			
Total Liquid Spill Liquid:	79.7 BBL		0.00 BBL	Surface Area:	6,390 sq. ft.		
				Surface Area:	.1467 acre		
Recovered Volumes				Estimated Weights, and Volumes			
Estimated oil recovered:	BBL	check - okay		Saturated Soil =	357,840 lbs	3,195 cu. ft.	118 cu. yds.
Estimated water recovered:	BBL	check - okay		Total Liquid =	80 BBL	3,346 gallon	27,837 lbs

Air Emission from flowline leaks:

Volume of oil spill: - BBL
 Separator gas calculated: - MCF
 Separator gas released: - MCF
 Gas released from oil: - lb
 H2S released: - lb
 Total HC gas released: - lb
 Total HC gas released: - MCF

Air Emission of Reporting Requirements:

New Mexico
 HC gas release reportable? NO
 H2S release reportable? NO
 Texas
 NO
 NO

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CONDITIONS

Action 150448

CONDITIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 150448
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	10/13/2022

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.

Form C-141

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAPP2228544134
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: Addison Guelker

Title: Environmental Tech

Signature: 

Date: 06/05/23

email: addisong@forl.com

Telephone: 432-687-1777

OCD Only

Received by: _____

Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	NAPP2228544134
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: Addison Guelker

Title: Environmental Tech

Signature: 

Date: 06/05/23

email: addisong@forl.com

Telephone: 432-687-1777

OCD Only

Received by: _____

Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____

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Santa Fe, NM 87505

CONDITIONS

Action 160967

CONDITIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 160967
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. This release is in a high karst area and will need to be remediated to the strictest closure criteria of <50' depth to groundwater from Table 1 of the spill rule. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Confirmation samples should be collected every 200 ft2. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance for confirmation samples every 400 ft2 is approved. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. The work will need to occur in 90 days after the work plan has been approved.	2/20/2023

Miranda Milwee

From: Mike Carmona
Sent: Monday, May 8, 2023 4:25 PM
To: NMOCD Spill Notifications (OCD.Enviro@emnrd.nm.gov)
Cc: Conner Moehring; Addison Guelker; Grant Huckabay
Subject: Fasken - Sampling Notification - Shell Federal #2 SWD Disposal Line -Incident # NAPP2228544134

Good Afternoon,

This email serves as a 48-hour notification for confirmation sampling on the Fasken Shell Federal #2 SWD Disposal Line. Sampling is scheduled to begin as early as 8:00 a.m. (MST) Thursday, May 11th, weather and soil conditions permitting. Carmona Resources will be on-site to collect the confirmation samples.

Incident # NAPP2228544134

Coordinates: 32.551779°, -104.498698°

Mike J. Carmona
310 West Wall Street, Suite 500
Midland TX, 79701
M: 432-813-1992
Mcarmona@carmonaresources.com



APPENDIX D

CARMONA RESOURCES

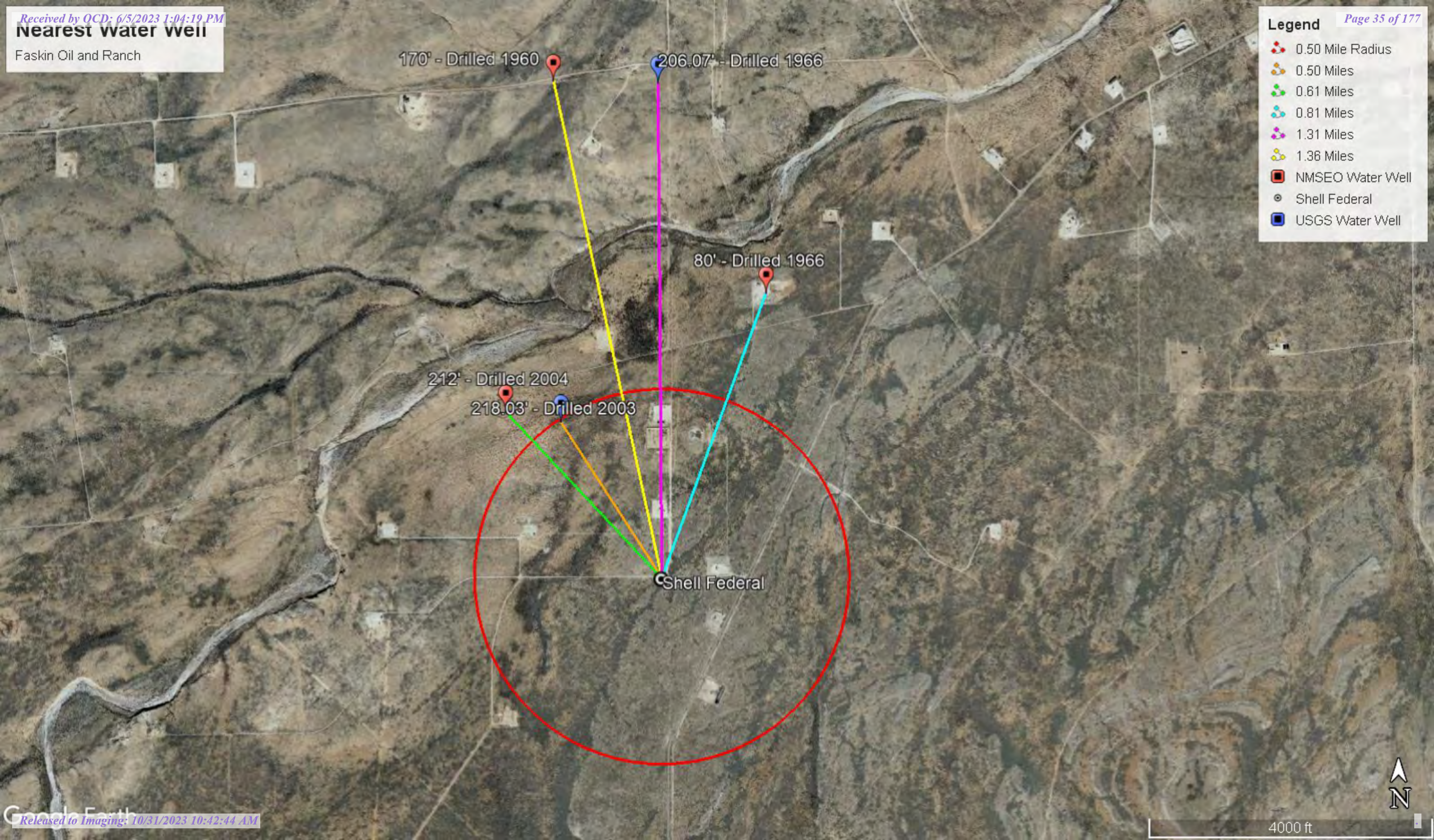


Nearest water well

Faskin Oil and Ranch

Legend

- 0.50 Mile Radius
- 0.50 Miles
- 0.61 Miles
- 0.81 Miles
- 1.31 Miles
- 1.36 Miles
- NMSEO Water Well
- Shell Federal
- USGS Water Well





4000 ft

High Karst

Faskin Oil and Ranch

Legend

-  High
-  Shell Federal

Shell Federal





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	County	Q Q Q						Rng	X	Y	Distance	Depth Well	Depth Water	Water Column	
	Sub-Code		basin	64	16	4	Sec	Tws								
RA 09978	RA	ED	3	1	2	29	20S	25E	546393	3601410*		735	350			
RA 10618	RA	ED	1	1	4	20	20S	25E	546389	3602414		976	342	212	130	
RA 05038	RA	ED	1	1	4	20	20S	25E	546390	3602416*		977	314	228	86	
RA 05227	RA	ED				1	21	20S	25E	547506	3602926*		1293	100	80	20
RA 04349	RA	ED	4	1	4	17	20S	25E	546587	3603827*		2170	231	170	61	
RA 12699	RA	ED	4	4	1	22	20S	25E	549327	3602647		2448				
C 03245	C	ED	3	1	4	32	20S	25E	546395	3598990*		2801	253	100	153	
RA 04502	RA	ED		2	2	25	20S	24E	543656	3601480*		3416	300	268	32	
RA 10141	RA	ED	3	4	1	23	20S	25E	550815	3602617*		3858	245			

Average Depth to Water: **176 feet**

Minimum Depth: **80 feet**

Maximum Depth: **268 feet**

Record Count: 9

UTM NAD83 Radius Search (in meters):

Easting (X): 547065.12

Northing (Y): 3601709.7

Radius: 4000

*UTM location was derived from PLSS - see Help

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


10/27/22 8:30 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

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

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 323328104301201

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

USGS 323328104301201 20S.25E.20.41114

Eddy County, New Mexico
Latitude 32°33'28", Longitude 104°30'12" NAD27
Land-surface elevation 3,502 feet above NAVD88
The depth of the well is 314.0 feet below land surface.
This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.
This well is completed in the Artesia Group (313ARTS) 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 measur
1984-02-01		D	62610		3286.24	NGVD29	1		Z	
1984-02-01		D	62611		3287.82	NAVD88	1		Z	
1984-02-01		D	72019	214.18			1		Z	
1989-02-09		D	62610		3305.62	NGVD29	1		Z	
1989-02-09		D	62611		3307.20	NAVD88	1		Z	
1989-02-09		D	72019	194.80			1		Z	
1990-03-07		D	62610		3303.49	NGVD29	1		S	
1990-03-07		D	62611		3305.07	NAVD88	1		S	
1990-03-07		D	72019	196.93			1		S	
1992-02-06		D	62610		3302.77	NGVD29	1		Z	
1992-02-06		D	62611		3304.35	NAVD88	1		Z	
1992-02-06		D	72019	197.65			1		Z	

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum
1993-02-04	D	62610	3304.86	NGVD29	1	Z
1993-02-04	D	62611	3306.44	NAVD88	1	Z
1993-02-04	D	72019	195.56		1	Z
1994-02-11	D	62610	3302.19	NGVD29	1	Z
1994-02-11	D	62611	3303.77	NAVD88	1	Z
1994-02-11	D	72019	198.23		1	Z
1999-02-24	D	62610	3293.39	NGVD29	1	S USGS
1999-02-24	D	62611	3294.97	NAVD88	1	S USGS
1999-02-24	D	72019	207.03		1	S USGS
2003-01-22	D	62610	3282.39	NGVD29	1	S USGS
2003-01-22	D	62611	3283.97	NAVD88	1	S USGS
2003-01-22	D	72019	218.03		1	S USGS

Explanation

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

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Page Last Modified: 2022-10-27 10:59:41 EDT

0.3 0.25 nadww01



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
RA 10618		1	1	4	20	20S	25E	546389	3602414

x

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

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

Drill Start Date: 09/14/2004	Drill Finish Date: 09/14/2004	Plug Date:
Log File Date: 09/20/2004	PCW Rev Date:	Source: Artesian
Pump Type: SUBMER	Pipe Discharge Size:	Estimated Yield: 130 GPM
Casing Size: 6.63	Depth Well: 342 feet	Depth Water: 212 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	238	292	Limestone/Dolomite/Chalk
	298	342	Limestone/Dolomite/Chalk

x

Casing Perforations:	Top	Bottom
	236	312
	312	342

x

Meter Number: 8311	Meter Make: BLANCETT
Meter Serial Number: 112211502	Meter Multiplier: 1.0000
Number of Dials: 6	Meter Type: Diversion
Unit of Measure: Barrels 42 gal.	Return Flow Percent:
Usage Multiplier:	Reading Frequency:

x

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
09/18/2004	2004	106888	A	RPT		0
10/13/2004	2004	110043	A	RPT		0.968
01/05/2005	2005	0	A	RPT		0
02/10/2005	2005	7420	A	RPT		2.277
07/14/2005	2005	43444	A	RPT		0
09/12/2005	2005	53144	A	RPT		2.977
10/29/2005	2005	141623	A	RPT		0
12/04/2005	2005	147395	A	RPT		1.771
05/11/2012	2012	0	A	RPT		0
05/22/2012	2012	23038	A	RPT		2.969
05/22/2012	2012	23038	A	RPT	intial reading for RA 11821	0
06/02/2012	2012	46176	A	RPT	ending reading for RA 11821	2.982

**YTD Meter Amounts:	Year	Amount
	2004	0.968
	2005	7.025
	2012	5.951

x

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10/27/22 8:34 AM

POINT OF DIVERSION SUMMARY



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
	RA 05227			1 21 20S 25E	547506 3602926* 

Driller License:	408	Driller Company:	PRICE, TOMMY		
Driller Name:	PRICE, TOMMY				
Drill Start Date:	05/20/1966	Drill Finish Date:	06/05/1966	Plug Date:	
Log File Date:	07/18/1966	PCW Rev Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	6.63	Depth Well:	100 feet	Depth Water:	80 feet

Water Bearing Stratifications:	Top	Bottom	Description
	80	100	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	75	100

*UTM location was derived from PLSS - see Help


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10/27/22 8:37 AM

POINT OF DIVERSION SUMMARY

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

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

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 323415104295601

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

USGS 323415104295601 20S.25E.17.42321

Eddy County, New Mexico
Latitude 32°34'15", Longitude 104°29'56" NAD27
Land-surface elevation 3,504 feet above NAVD88
The depth of the well is 231 feet below land surface.
This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1962-01-05		D	62610		3322.75	NGVD29	1		Z	
1962-01-05		D	62611		3324.32	NAVD88	1		Z	
1962-01-05		D	72019	179.68			1		Z	
1963-01-07		D	62610		3315.44	NGVD29	1		Z	
1963-01-07		D	62611		3317.01	NAVD88	1		Z	
1963-01-07		D	72019	186.99			1		Z	
1963-07-24		D	62610		3307.77	NGVD29	P		Z	
1963-07-24		D	62611		3309.34	NAVD88	P		Z	
1963-07-24		D	72019	194.66			P		Z	
1963-09-04		D	62610		3288.15	NGVD29	1		Z	
1963-09-04		D	62611		3289.72	NAVD88	1		Z	
1963-09-04		D	72019	214.28			1		Z	

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum
1963-10-02	D	62610	3288.43	NGVD29	1	Z
1963-10-02	D	62611	3290.00	NAVD88	1	Z
1963-10-02	D	72019	214.00		1	Z
1963-11-20	D	62610	3295.25	NGVD29	P	Z
1963-11-20	D	62611	3296.82	NAVD88	P	Z
1963-11-20	D	72019	207.18		P	Z
1964-01-06	D	62610	3305.15	NGVD29	P	Z
1964-01-06	D	62611	3306.72	NAVD88	P	Z
1964-01-06	D	72019	197.28		P	Z
1965-01-13	D	62610	3295.75	NGVD29	P	Z
1965-01-13	D	62611	3297.32	NAVD88	P	Z
1965-01-13	D	72019	206.68		P	Z
1966-01-27	D	62610	3296.36	NGVD29	1	Z
1966-01-27	D	62611	3297.93	NAVD88	1	Z
1966-01-27	D	72019	206.07		1	Z

Explanation

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

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Title: Groundwater for New Mexico: Water Levels

URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=323415104295601&agency_cd=USGS&format=html

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

Page Last Modified: 2022-10-27 11:03:35 EDT


0.29 0.25 nadww02





New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 04349	4	1	4	17	20S	25E	546587	3603827* 
<hr/>									
Driller License: 62		Driller Company:				BEATTY, J.R.			
Driller Name: W.BEATTY									
Drill Start Date: 12/24/1960		Drill Finish Date:				12/27/1960		Plug Date:	
Log File Date: 01/11/1961		PCW Rcv Date:				Source: Shallow			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 7.00		Depth Well:				231 feet		Depth Water: 170 feet	
<hr/>									
Water Bearing Stratifications:		Top	Bottom	Description					
		218	231	Sandstone/Gravel/Conglomerate					

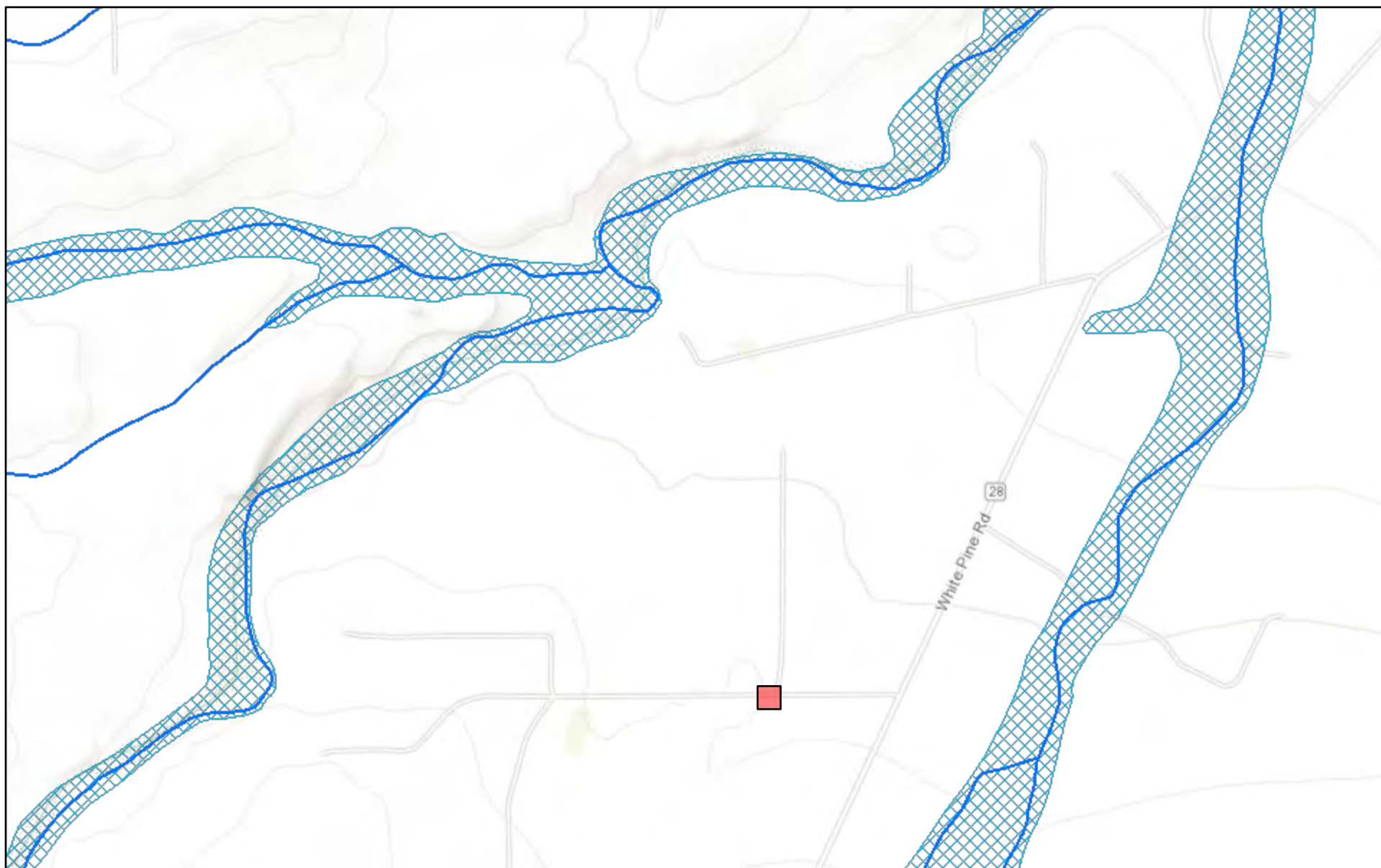
*UTM location was derived from PLSS - see Help

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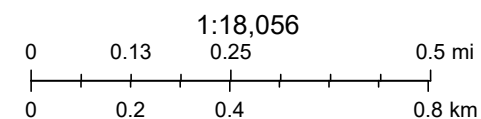
10/27/22 8:39 AM

POINT OF DIVERSION SUMMARY

New Mexico NFHL Data



October 27, 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

ANALYTICAL REPORT

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

Laboratory Job ID: 880-20700-1

Laboratory Sample Delivery Group: Eddy County, New Mexico
Client Project/Site: Shell Federal

For:

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

Attn: Mike Carmona

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

Authorized for release by:

10/31/2022 9:39:32 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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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: Shell Federal

Laboratory Job ID: 880-20700-1
SDG: Eddy County, New Mexico

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Certification Summary	22
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1

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*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
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: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

Job ID: 880-20700-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-20700-1****Receipt**

The samples were received on 10/25/2022 9:36 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-20700-1), H-2 (0-0.5') (880-20700-2), H-3 (0-0.5') (880-20700-3), H-4 (0-0.5') (880-20700-4), H-5 (0-0.5') (880-20700-5) and H-6 (0-0.5') (880-20700-6).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-38061 and analytical batch 880-38058 was outside the upper control limits.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-38061 and analytical batch 880-38058 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-37877 and analytical batch 880-37857 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCSD 880-37877/3-A) and (MB 880-37877/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-20700-1

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/28/22 09:04	10/28/22 15:30	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		10/28/22 09:04	10/28/22 15:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/28/22 09:04	10/28/22 15:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/28/22 09:04	10/28/22 15:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/28/22 09:04	10/28/22 15:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/28/22 09:04	10/28/22 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	10/28/22 09:04	10/28/22 15:30	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/28/22 09:04	10/28/22 15:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/30/22 22:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/27/22 09:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/26/22 08:35	10/26/22 19:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/26/22 08:35	10/26/22 19:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 08:35	10/26/22 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	10/26/22 08:35	10/26/22 19:03	1
o-Terphenyl	113		70 - 130	10/26/22 08:35	10/26/22 19:03	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			10/27/22 22:15	1

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

Lab Sample ID: 880-20700-2

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/28/22 09:04	10/28/22 15:56	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		10/28/22 09:04	10/28/22 15:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/28/22 09:04	10/28/22 15:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/28/22 09:04	10/28/22 15:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/28/22 09:04	10/28/22 15:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/28/22 09:04	10/28/22 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	10/28/22 09:04	10/28/22 15:56	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/28/22 09:04	10/28/22 15:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-20700-2

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/30/22 22:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/27/22 09:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/26/22 08:35	10/26/22 19:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/26/22 08:35	10/26/22 19:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 08:35	10/26/22 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				10/26/22 08:35	10/26/22 19:24	1
o-Terphenyl	97		70 - 130				10/26/22 08:35	10/26/22 19:24	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			10/27/22 22:40	1

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

Lab Sample ID: 880-20700-3

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/28/22 09:04	10/28/22 17:51	1
Toluene	<0.00199	U *	0.00199		mg/Kg		10/28/22 09:04	10/28/22 17:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/28/22 09:04	10/28/22 17:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/28/22 09:04	10/28/22 17:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/28/22 09:04	10/28/22 17:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/28/22 09:04	10/28/22 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				10/28/22 09:04	10/28/22 17:51	1
1,4-Difluorobenzene (Surr)	90		70 - 130				10/28/22 09:04	10/28/22 17:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/30/22 22:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/27/22 09:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/26/22 08:35	10/26/22 19:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/26/22 08:35	10/26/22 19:45	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-20700-3

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/22 08:35	10/26/22 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				10/26/22 08:35	10/26/22 19:45	1
o-Terphenyl	96		70 - 130				10/26/22 08:35	10/26/22 19:45	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			10/27/22 22:48	1

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

Lab Sample ID: 880-20700-4

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/28/22 09:04	10/28/22 18:17	1
Toluene	<0.00199	U *	0.00199		mg/Kg		10/28/22 09:04	10/28/22 18:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/28/22 09:04	10/28/22 18:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/28/22 09:04	10/28/22 18:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/28/22 09:04	10/28/22 18:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/28/22 09:04	10/28/22 18:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				10/28/22 09:04	10/28/22 18:17	1
1,4-Difluorobenzene (Surr)	95		70 - 130				10/28/22 09:04	10/28/22 18:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/30/22 22:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/27/22 09:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/26/22 08:35	10/26/22 20:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/26/22 08:35	10/26/22 20:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 08:35	10/26/22 20:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				10/26/22 08:35	10/26/22 20:07	1
o-Terphenyl	104		70 - 130				10/26/22 08:35	10/26/22 20:07	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			10/27/22 22:57	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-20700-5

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/28/22 09:04	10/28/22 18:43	1
Toluene	<0.00201	U *-	0.00201		mg/Kg		10/28/22 09:04	10/28/22 18:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/28/22 09:04	10/28/22 18:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/28/22 09:04	10/28/22 18:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/28/22 09:04	10/28/22 18:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/28/22 09:04	10/28/22 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	10/28/22 09:04	10/28/22 18:43	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/28/22 09:04	10/28/22 18:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/30/22 22:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/27/22 09:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+ *1	50.0		mg/Kg		10/26/22 11:21	10/27/22 02:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/26/22 11:21	10/27/22 02:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 11:21	10/27/22 02:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	10/26/22 11:21	10/27/22 02:29	1
o-Terphenyl	99		70 - 130	10/26/22 11:21	10/27/22 02:29	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.5		5.03		mg/Kg			10/27/22 23:05	1

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

Lab Sample ID: 880-20700-6

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/28/22 09:04	10/28/22 19:09	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		10/28/22 09:04	10/28/22 19:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/28/22 09:04	10/28/22 19:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/28/22 09:04	10/28/22 19:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/28/22 09:04	10/28/22 19:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/28/22 09:04	10/28/22 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	10/28/22 09:04	10/28/22 19:09	1
1,4-Difluorobenzene (Surr)	90		70 - 130	10/28/22 09:04	10/28/22 19:09	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-20700-6

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/30/22 22:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/27/22 09:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+ *1	49.9		mg/Kg		10/26/22 11:21	10/27/22 02:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/26/22 11:21	10/27/22 02:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/22 11:21	10/27/22 02:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				10/26/22 11:21	10/27/22 02:50	1
o-Terphenyl	117		70 - 130				10/26/22 11:21	10/27/22 02:50	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.18	U	4.18		mg/Kg			10/27/22 23:30	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-20623-A-84-G MS	Matrix Spike	99	93
880-20623-A-84-K MSD	Matrix Spike Duplicate	96	92
880-20700-1	H-1 (0-0.5')	101	91
880-20700-2	H-2 (0-0.5')	109	94
880-20700-3	H-3 (0-0.5')	113	90
880-20700-4	H-4 (0-0.5')	113	95
880-20700-5	H-5 (0-0.5')	111	91
880-20700-6	H-6 (0-0.5')	102	90
LCS 880-38061/1-A	Lab Control Sample	110	106
LCSD 880-38061/2-A	Lab Control Sample Dup	108	100
MB 880-38061/6-A	Method Blank	62 S1-	89
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-20700-1	H-1 (0-0.5')	103	113
880-20700-2	H-2 (0-0.5')	85	97
880-20700-3	H-3 (0-0.5')	84	96
880-20700-4	H-4 (0-0.5')	95	104
880-20700-5	H-5 (0-0.5')	87	99
880-20700-6	H-6 (0-0.5')	106	117
890-3271-A-4-C MS	Matrix Spike	77	81
890-3271-A-4-D MSD	Matrix Spike Duplicate	78	82
890-3276-A-21-B MS	Matrix Spike	82	84
890-3276-A-21-C MSD	Matrix Spike Duplicate	98	97
LCS 880-37854/2-A	Lab Control Sample	90	109
LCS 880-37877/2-A	Lab Control Sample	97	118
LCSD 880-37854/3-A	Lab Control Sample Dup	109	126
LCSD 880-37877/3-A	Lab Control Sample Dup	117	137 S1+
MB 880-37854/1-A	Method Blank	98	123
MB 880-37877/1-A	Method Blank	121	146 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-38061/6-A

Matrix: Solid

Analysis Batch: 38058

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38061

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/28/22 09:04	10/28/22 11:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/28/22 09:04	10/28/22 11:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/28/22 09:04	10/28/22 11:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/28/22 09:04	10/28/22 11:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/28/22 09:04	10/28/22 11:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/28/22 09:04	10/28/22 11:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130	10/28/22 09:04	10/28/22 11:36	1
1,4-Difluorobenzene (Surr)	89		70 - 130	10/28/22 09:04	10/28/22 11:36	1

Lab Sample ID: LCS 880-38061/1-A

Matrix: Solid

Analysis Batch: 38058

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38061

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07369		mg/Kg		74	70 - 130
Toluene	0.100	0.06319	*-	mg/Kg		63	70 - 130
Ethylbenzene	0.100	0.07103		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	0.200	0.1424		mg/Kg		71	70 - 130
o-Xylene	0.100	0.07141		mg/Kg		71	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-38061/2-A

Matrix: Solid

Analysis Batch: 38058

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 38061

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08194		mg/Kg		82	70 - 130	11	35
Toluene	0.100	0.07901		mg/Kg		79	70 - 130	22	35
Ethylbenzene	0.100	0.07690		mg/Kg		77	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1545		mg/Kg		77	70 - 130	8	35
o-Xylene	0.100	0.07852		mg/Kg		79	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-20623-A-84-G MS

Matrix: Solid

Analysis Batch: 38058

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 38061

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.07938		mg/Kg		80	70 - 130
Toluene	<0.00199	U *-	0.0998	0.07727		mg/Kg		77	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-20623-A-84-G MS

Matrix: Solid

Analysis Batch: 38058

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 38061

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0998	0.07442		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1483		mg/Kg		74	70 - 130
o-Xylene	<0.00199	U	0.0998	0.07325		mg/Kg		73	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-20623-A-84-K MSD

Matrix: Solid

Analysis Batch: 38058

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 38061

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.08035		mg/Kg		81	70 - 130	1	35
Toluene	<0.00199	U *	0.0990	0.07748		mg/Kg		78	70 - 130	0	35
Ethylbenzene	<0.00199	U	0.0990	0.07532		mg/Kg		76	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1500		mg/Kg		76	70 - 130	1	35
o-Xylene	<0.00199	U	0.0990	0.07389		mg/Kg		75	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

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

Lab Sample ID: MB 880-37854/1-A

Matrix: Solid

Analysis Batch: 37857

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37854

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/26/22 08:35	10/26/22 09:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/26/22 08:35	10/26/22 09:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 08:35	10/26/22 09:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	10/26/22 08:35	10/26/22 09:08	1
o-Terphenyl	123		70 - 130	10/26/22 08:35	10/26/22 09:08	1

Lab Sample ID: LCS 880-37854/2-A

Matrix: Solid

Analysis Batch: 37857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37854

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	975.8		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	840.0		mg/Kg		84	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-37854/2-A

Matrix: Solid

Analysis Batch: 37857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37854

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: LCSD 880-37854/3-A

Matrix: Solid

Analysis Batch: 37857

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37854

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	800.4		mg/Kg		80	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	1000	939.0		mg/Kg		94	70 - 130	11	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: 890-3271-A-4-C MS

Matrix: Solid

Analysis Batch: 37857

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 37854

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1099		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	998	932.0		mg/Kg		92	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: 890-3271-A-4-D MSD

Matrix: Solid

Analysis Batch: 37857

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 37854

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1173		mg/Kg		115	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	942.1		mg/Kg		93	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	82		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-37877/1-A

Matrix: Solid

Analysis Batch: 37857

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37877

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/26/22 11:21	10/26/22 20:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/26/22 11:21	10/26/22 20:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 11:21	10/26/22 20:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				10/26/22 11:21	10/26/22 20:49	1
o-Terphenyl	146	S1+	70 - 130				10/26/22 11:21	10/26/22 20:49	1

Lab Sample ID: LCS 880-37877/2-A

Matrix: Solid

Analysis Batch: 37857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37877

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1077		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1003		mg/Kg		100	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	97		70 - 130				
o-Terphenyl	118		70 - 130				

Lab Sample ID: LCSD 880-37877/3-A

Matrix: Solid

Analysis Batch: 37857

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37877

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1328	*+ *1	mg/Kg		133	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	1000	1159		mg/Kg		116	70 - 130	14	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	117		70 - 130						
o-Terphenyl	137	S1+	70 - 130						

Lab Sample ID: 890-3276-A-21-B MS

Matrix: Solid

Analysis Batch: 37857

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 37877

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+ *1	998	1122		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	938.0		mg/Kg		94	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-3276-A-21-B MS

Matrix: Solid

Analysis Batch: 37857

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 37877

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

Lab Sample ID: 890-3276-A-21-C MSD

Matrix: Solid

Analysis Batch: 37857

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 37877

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U ** *1	998	937.6		mg/Kg		91	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1117		mg/Kg		112	70 - 130	17	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	97		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-37837/1-A

Matrix: Solid

Analysis Batch: 38045

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/27/22 21:50	1

Lab Sample ID: LCS 880-37837/2-A

Matrix: Solid

Analysis Batch: 38045

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-37837/3-A

Matrix: Solid

Analysis Batch: 38045

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	255.1		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-20700-1 MS

Matrix: Solid

Analysis Batch: 38045

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<4.98	U	249	246.5		mg/Kg		98	90 - 110

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QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-20700-1 MSD					Client Sample ID: H-1 (0-0.5')							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 38045												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	<4.98	U	249	247.6		mg/Kg		99	90 - 110	0	20	

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 38058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20700-1	H-1 (0-0.5')	Total/NA	Solid	8021B	38061
880-20700-2	H-2 (0-0.5')	Total/NA	Solid	8021B	38061
880-20700-3	H-3 (0-0.5')	Total/NA	Solid	8021B	38061
880-20700-4	H-4 (0-0.5')	Total/NA	Solid	8021B	38061
880-20700-5	H-5 (0-0.5')	Total/NA	Solid	8021B	38061
880-20700-6	H-6 (0-0.5')	Total/NA	Solid	8021B	38061
MB 880-38061/6-A	Method Blank	Total/NA	Solid	8021B	38061
LCS 880-38061/1-A	Lab Control Sample	Total/NA	Solid	8021B	38061
LCSD 880-38061/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38061
880-20623-A-84-G MS	Matrix Spike	Total/NA	Solid	8021B	38061
880-20623-A-84-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	38061

Prep Batch: 38061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20700-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-20700-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-20700-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-20700-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-20700-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-20700-6	H-6 (0-0.5')	Total/NA	Solid	5035	
MB 880-38061/6-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38061/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38061/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20623-A-84-G MS	Matrix Spike	Total/NA	Solid	5035	
880-20623-A-84-K MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 38196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20700-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-20700-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-20700-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-20700-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-20700-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-20700-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 37854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20700-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-20700-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-20700-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-20700-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-37854/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-37854/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-37854/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3271-A-4-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3271-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 37857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20700-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	37854
880-20700-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	37854
880-20700-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	37854
880-20700-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	37854
880-20700-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	37877
880-20700-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	37877
MB 880-37854/1-A	Method Blank	Total/NA	Solid	8015B NM	37854
MB 880-37877/1-A	Method Blank	Total/NA	Solid	8015B NM	37877
LCS 880-37854/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37854
LCS 880-37877/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37877
LCSD 880-37854/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37854
LCSD 880-37877/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37877
890-3271-A-4-C MS	Matrix Spike	Total/NA	Solid	8015B NM	37854
890-3271-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	37854
890-3276-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	37877
890-3276-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	37877

Prep Batch: 37877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20700-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-20700-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-37877/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-37877/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-37877/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3276-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3276-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 37988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20700-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-20700-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-20700-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-20700-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-20700-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-20700-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 37837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20700-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-20700-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-20700-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-20700-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-20700-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-20700-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-37837/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-37837/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-37837/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20700-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-20700-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

HPLC/IC

Analysis Batch: 38045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20700-1	H-1 (0-0.5')	Soluble	Solid	300.0	37837
880-20700-2	H-2 (0-0.5')	Soluble	Solid	300.0	37837
880-20700-3	H-3 (0-0.5')	Soluble	Solid	300.0	37837
880-20700-4	H-4 (0-0.5')	Soluble	Solid	300.0	37837
880-20700-5	H-5 (0-0.5')	Soluble	Solid	300.0	37837
880-20700-6	H-6 (0-0.5')	Soluble	Solid	300.0	37837
MB 880-37837/1-A	Method Blank	Soluble	Solid	300.0	37837
LCS 880-37837/2-A	Lab Control Sample	Soluble	Solid	300.0	37837
LCSD 880-37837/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	37837
880-20700-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	37837
880-20700-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	37837

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-20700-1

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38061	10/28/22 09:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38058	10/28/22 15:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38196	10/30/22 22:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			37988	10/27/22 09:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37854	10/26/22 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37857	10/26/22 19:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	37837	10/25/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38045	10/27/22 22:15	CH	EET MID

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

Lab Sample ID: 880-20700-2

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38061	10/28/22 09:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38058	10/28/22 15:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38196	10/30/22 22:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			37988	10/27/22 09:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37854	10/26/22 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37857	10/26/22 19:24	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	37837	10/25/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38045	10/27/22 22:40	CH	EET MID

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

Lab Sample ID: 880-20700-3

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38061	10/28/22 09:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38058	10/28/22 17:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38196	10/30/22 22:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			37988	10/27/22 09:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37854	10/26/22 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37857	10/26/22 19:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	37837	10/25/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38045	10/27/22 22:48	CH	EET MID

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

Lab Sample ID: 880-20700-4

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38061	10/28/22 09:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38058	10/28/22 18:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38196	10/30/22 22:15	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-20700-4

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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			37988	10/27/22 09:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37854	10/26/22 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37857	10/26/22 20:07	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	37837	10/25/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38045	10/27/22 22:57	CH	EET MID

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

Lab Sample ID: 880-20700-5

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38061	10/28/22 09:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38058	10/28/22 18:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38196	10/30/22 22:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			37988	10/27/22 09:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37877	10/26/22 11:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37857	10/27/22 02:29	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	37837	10/25/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38045	10/27/22 23:05	CH	EET MID

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

Lab Sample ID: 880-20700-6

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38061	10/28/22 09:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38058	10/28/22 19:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38196	10/30/22 22:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			37988	10/27/22 09:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37877	10/26/22 11:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37857	10/27/22 02:50	SM	EET MID
Soluble	Leach	DI Leach			5.98 g	50 mL	37837	10/25/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38045	10/27/22 23:30	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

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

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

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

Method Summary

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20700-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-20700-1	H-1 (0-0.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20700-2	H-2 (0-0.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20700-3	H-3 (0-0.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20700-4	H-4 (0-0.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20700-5	H-5 (0-0.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20700-6	H-6 (0-0.5')	Solid	10/24/22 00:00	10/25/22 09:36


Work Order No: 20700

Page 1 of 1

Project Manager		Conner Moehring		Bill to (if different)		Grant Huckabee	
Company Name		Carmona Resources		Company Name		Fasten Oil and Ranch	
Address		310 W Wall St Ste 415		Address		6101 Holiday Hill Road	
City, State ZIP		Midland, TX 79701		City, State ZIP		Midland, Texas 79707	
Phone		432-813-6823		Email		Granhh@forl.com	

Project Name		Shell Federal		Turn Around		Pres. Code		ANALYSIS REQUEST										Preservative Codes			
Project Number		1155		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush																None NO DI Water H ₂ O	
Project Location		Eddy County, New Mexico		Due Date																Cool Cool MeOH Me	
Sampler's Name		CRM																		HCL HC HNO ₃ HN	
PO #																				H ₂ SO ₄ H ₂ NaOH Na	
SAMPLE RECEIPT		Temp Blank		Yes No		Wet Ice		Yes No												H ₃ PO ₄ HP	
Received Intact		Yes No		Thermometer ID																NaHSO ₄ NABIS	
Cooler Custody Seals		Yes No		Correction Factor																Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals		Yes No		Temperature Reading																Zn Acetate+NaOH Zn	
Total Containers				Corrected Temperature																NaOH+Ascorbic Acid SAPC	

Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont		Parameters										Sample Comments	
H-1 (0-0.5')		10/24/2022				X		G		1		X		BTX 8021B										402 jar	
H-2 (0-0.5')		10/24/2022				X		G		1		X		TPH 8015M (GRO + DRO + MRO)											
H-3 (0-0.5')		10/24/2022				X		G		1		X		Chloride 300.0											
H-4 (0-0.5')		10/24/2022				X		G		1		X													
H-5 (0-0.5')		10/24/2022				X		G		1		X													
H-6 (0-0.5')		10/24/2022				X		G		1		X													



880-20700 Chain of Custody

Relinquished by (Signature)

Date/Time

10/23/22 930

Received by (Signature)

Date/Time

10/23/22 930

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-20700-1

SDG Number: Eddy County, New Mexico

Login Number: 20700

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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



Environment Testing

ANALYTICAL REPORT

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

Laboratory Job ID: 880-20701-1

Laboratory Sample Delivery Group: Eddy County, New Mexico
Client Project/Site: Shell Federal

For:

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

Attn: Mike Carmona

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

Authorized for release by:

10/31/2022 4:43:16 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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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: Shell Federal

Laboratory Job ID: 880-20701-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Job ID: 880-20701-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-20701-1****Receipt**

The samples were received on 10/25/2022 9:36 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-1') (880-20701-1), S-1 (1.5') (880-20701-2), S-1 (2') (880-20701-3), S-2 (0-1') (880-20701-4), S-2 (1.5') (880-20701-5), S-2 (2') (880-20701-6), S-2 (3') (880-20701-7), S-3 (0-1') (880-20701-8), S-3 (1.5') (880-20701-9), S-3 (2') (880-20701-10), S-3 (3') (880-20701-11), S-4 (0-1') (880-20701-12), S-4 (1.5') (880-20701-13), S-4 (2') (880-20701-14), S-4 (3') (880-20701-15), S-4 (4') (880-20701-16), S-5 (0-1') (880-20701-17), S-5 (1.5') (880-20701-18), S-5 (2') (880-20701-19) and S-5 (3') (880-20701-20).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-38029 and analytical batch 880-38173 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.

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-20701-1

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.201	U	0.201		mg/Kg		10/27/22 15:04	10/30/22 16:09	100
Toluene	<0.201	U	0.201		mg/Kg		10/27/22 15:04	10/30/22 16:09	100
Ethylbenzene	<0.201	U	0.201		mg/Kg		10/27/22 15:04	10/30/22 16:09	100
m-Xylene & p-Xylene	<0.402	U	0.402		mg/Kg		10/27/22 15:04	10/30/22 16:09	100
o-Xylene	<0.201	U	0.201		mg/Kg		10/27/22 15:04	10/30/22 16:09	100
Xylenes, Total	<0.402	U	0.402		mg/Kg		10/27/22 15:04	10/30/22 16:09	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	10/27/22 15:04	10/30/22 16:09	100
1,4-Difluorobenzene (Surr)	96		70 - 130	10/27/22 15:04	10/30/22 16:09	100

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.402	U	0.402		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	91.2		49.8		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/26/22 16:08	10/28/22 22:18	1
Diesel Range Organics (Over C10-C28)	91.2		49.8		mg/Kg		10/26/22 16:08	10/28/22 22:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/26/22 16:08	10/28/22 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	10/26/22 16:08	10/28/22 22:18	1
o-Terphenyl	106		70 - 130	10/26/22 16:08	10/28/22 22:18	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18300		248		mg/Kg			10/27/22 17:22	50

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-20701-2

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1 F2	0.00198		mg/Kg		10/27/22 15:04	10/30/22 13:05	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 13:05	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 13:05	1
m-Xylene & p-Xylene	<0.00396	U F1 F2	0.00396		mg/Kg		10/27/22 15:04	10/30/22 13:05	1
o-Xylene	<0.00198	U F2	0.00198		mg/Kg		10/27/22 15:04	10/30/22 13:05	1
Xylenes, Total	<0.00396	U F1 F2	0.00396		mg/Kg		10/27/22 15:04	10/30/22 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	10/27/22 15:04	10/30/22 13:05	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/27/22 15:04	10/30/22 13:05	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-20701-2

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/28/22 23:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/28/22 23:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/28/22 23:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				10/26/22 16:08	10/28/22 23:22	1
o-Terphenyl	89		70 - 130				10/26/22 16:08	10/28/22 23:22	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	163		4.99		mg/Kg			10/27/22 17:47	1

Client Sample ID: S-1 (2')

Lab Sample ID: 880-20701-3

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 13:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 13:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 13:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/27/22 15:04	10/30/22 13:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 13:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/27/22 15:04	10/30/22 13:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				10/27/22 15:04	10/30/22 13:26	1
1,4-Difluorobenzene (Surr)	99		70 - 130				10/27/22 15:04	10/30/22 13:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/26/22 16:08	10/28/22 23:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/26/22 16:08	10/28/22 23:44	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (2')

Lab Sample ID: 880-20701-3

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/26/22 16:08	10/28/22 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				10/26/22 16:08	10/28/22 23:44	1
o-Terphenyl	111		70 - 130				10/26/22 16:08	10/28/22 23:44	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		4.95		mg/Kg			10/27/22 17:56	1

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

Lab Sample ID: 880-20701-4

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 13:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 13:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 13:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 13:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 13:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 13:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				10/27/22 15:04	10/30/22 13:46	1
1,4-Difluorobenzene (Surr)	103		70 - 130				10/27/22 15:04	10/30/22 13:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 00:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 00:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 00:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				10/26/22 16:08	10/29/22 00:05	1
o-Terphenyl	95		70 - 130				10/26/22 16:08	10/29/22 00:05	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2240		50.5		mg/Kg			10/27/22 18:04	10

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-20701-5

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00275		0.00199		mg/Kg		10/27/22 15:04	10/30/22 14:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 14:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 14:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 14:07	1
o-Xylene	0.00232		0.00199		mg/Kg		10/27/22 15:04	10/30/22 14:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				10/27/22 15:04	10/30/22 14:07	1
1,4-Difluorobenzene (Surr)	113		70 - 130				10/27/22 15:04	10/30/22 14:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00507		0.00398		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 00:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 00:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 00:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				10/26/22 16:08	10/29/22 00:26	1
o-Terphenyl	113		70 - 130				10/26/22 16:08	10/29/22 00:26	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2270		50.0		mg/Kg			10/27/22 18:12	10

Client Sample ID: S-2 (2')

Lab Sample ID: 880-20701-6

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 14:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 14:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 14:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/27/22 15:04	10/30/22 14:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 14:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/27/22 15:04	10/30/22 14:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				10/27/22 15:04	10/30/22 14:27	1
1,4-Difluorobenzene (Surr)	97		70 - 130				10/27/22 15:04	10/30/22 14:27	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (2')

Lab Sample ID: 880-20701-6

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 00:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 00:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 00:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				10/26/22 16:08	10/29/22 00:48	1
o-Terphenyl	99		70 - 130				10/26/22 16:08	10/29/22 00:48	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1540		24.9		mg/Kg			10/27/22 18:37	5

Client Sample ID: S-2 (3')

Lab Sample ID: 880-20701-7

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/27/22 15:04	10/30/22 14:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/27/22 15:04	10/30/22 14:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/27/22 15:04	10/30/22 14:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/27/22 15:04	10/30/22 14:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/27/22 15:04	10/30/22 14:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/27/22 15:04	10/30/22 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				10/27/22 15:04	10/30/22 14:48	1
1,4-Difluorobenzene (Surr)	96		70 - 130				10/27/22 15:04	10/30/22 14:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 01:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 01:10	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (3')

Lab Sample ID: 880-20701-7

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 01:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				10/26/22 16:08	10/29/22 01:10	1
o-Terphenyl	93		70 - 130				10/26/22 16:08	10/29/22 01:10	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		24.8		mg/Kg			10/27/22 18:46	5

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

Lab Sample ID: 880-20701-8

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 15:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 15:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 15:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/27/22 15:04	10/30/22 15:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 15:08	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/27/22 15:04	10/30/22 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				10/27/22 15:04	10/30/22 15:08	1
1,4-Difluorobenzene (Surr)	98		70 - 130				10/27/22 15:04	10/30/22 15:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	315		50.0		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 01:31	1
Diesel Range Organics (Over C10-C28)	315		50.0		mg/Kg		10/26/22 16:08	10/29/22 01:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 01:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				10/26/22 16:08	10/29/22 01:31	1
o-Terphenyl	96		70 - 130				10/26/22 16:08	10/29/22 01:31	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14300		101		mg/Kg			10/27/22 18:54	20

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-20701-9

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 15:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 15:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 15:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 15:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 15:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 15:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				10/27/22 15:04	10/30/22 15:28	1
1,4-Difluorobenzene (Surr)	119		70 - 130				10/27/22 15:04	10/30/22 15:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/26/22 16:08	10/29/22 01:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/26/22 16:08	10/29/22 01:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/26/22 16:08	10/29/22 01:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				10/26/22 16:08	10/29/22 01:53	1
o-Terphenyl	96		70 - 130				10/26/22 16:08	10/29/22 01:53	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10100		100		mg/Kg			10/27/22 19:03	20

Client Sample ID: S-3 (2')

Lab Sample ID: 880-20701-10

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 15:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 15:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 15:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/27/22 15:04	10/30/22 15:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 15:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/27/22 15:04	10/30/22 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				10/27/22 15:04	10/30/22 15:49	1
1,4-Difluorobenzene (Surr)	96		70 - 130				10/27/22 15:04	10/30/22 15:49	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (2')

Lab Sample ID: 880-20701-10

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 02:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 02:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 02:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				10/26/22 16:08	10/29/22 02:15	1
o-Terphenyl	115		70 - 130				10/26/22 16:08	10/29/22 02:15	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3310		25.0		mg/Kg			10/27/22 19:11	5

Client Sample ID: S-3 (3')

Lab Sample ID: 880-20701-11

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 17:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 17:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 17:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 17:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 17:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				10/27/22 15:04	10/30/22 17:59	1
1,4-Difluorobenzene (Surr)	92		70 - 130				10/27/22 15:04	10/30/22 17:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 02:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 02:59	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (3')

Lab Sample ID: 880-20701-11

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 02:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				10/26/22 16:08	10/29/22 02:59	1
o-Terphenyl	110		70 - 130				10/26/22 16:08	10/29/22 02:59	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		5.00		mg/Kg			10/27/22 19:19	1

Client Sample ID: S-4 (0-1')

Lab Sample ID: 880-20701-12

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0992	U	0.0992		mg/Kg		10/27/22 15:04	10/30/22 21:03	50
Toluene	<0.0992	U	0.0992		mg/Kg		10/27/22 15:04	10/30/22 21:03	50
Ethylbenzene	0.106		0.0992		mg/Kg		10/27/22 15:04	10/30/22 21:03	50
m-Xylene & p-Xylene	<0.198	U	0.198		mg/Kg		10/27/22 15:04	10/30/22 21:03	50
o-Xylene	0.439		0.0992		mg/Kg		10/27/22 15:04	10/30/22 21:03	50
Xylenes, Total	0.439		0.198		mg/Kg		10/27/22 15:04	10/30/22 21:03	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130				10/27/22 15:04	10/30/22 21:03	50
1,4-Difluorobenzene (Surr)	83		70 - 130				10/27/22 15:04	10/30/22 21:03	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.545		0.198		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2780		50.0		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	170		50.0		mg/Kg		10/26/22 16:08	10/29/22 03:21	1
Diesel Range Organics (Over C10-C28)	2610		50.0		mg/Kg		10/26/22 16:08	10/29/22 03:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 03:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				10/26/22 16:08	10/29/22 03:21	1
o-Terphenyl	104		70 - 130				10/26/22 16:08	10/29/22 03:21	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4330		99.6		mg/Kg			10/27/22 19:44	20

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-20701-13

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 18:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 18:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 18:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 18:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 18:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	10/27/22 15:04	10/30/22 18:19	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/27/22 15:04	10/30/22 18:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 03:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 03:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 03:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	10/26/22 16:08	10/29/22 03:43	1
o-Terphenyl	94		70 - 130	10/26/22 16:08	10/29/22 03:43	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10400		101		mg/Kg			10/27/22 19:53	20

Client Sample ID: S-4 (2')

Lab Sample ID: 880-20701-14

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 18:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 18:40	1
Ethylbenzene	0.00340		0.00199		mg/Kg		10/27/22 15:04	10/30/22 18:40	1
m-Xylene & p-Xylene	0.00801		0.00398		mg/Kg		10/27/22 15:04	10/30/22 18:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 18:40	1
Xylenes, Total	0.00801		0.00398		mg/Kg		10/27/22 15:04	10/30/22 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	10/27/22 15:04	10/30/22 18:40	1
1,4-Difluorobenzene (Surr)	120		70 - 130	10/27/22 15:04	10/30/22 18:40	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Client Sample ID: S-4 (2')

Lab Sample ID: 880-20701-14

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0114		0.00398		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 04:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 04:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 04:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				10/26/22 16:08	10/29/22 04:05	1
o-Terphenyl	90		70 - 130				10/26/22 16:08	10/29/22 04:05	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12400		250		mg/Kg			10/27/22 20:18	50

Client Sample ID: S-4 (3')

Lab Sample ID: 880-20701-15

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 19:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 19:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 19:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/27/22 15:04	10/30/22 19:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 19:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/27/22 15:04	10/30/22 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				10/27/22 15:04	10/30/22 19:00	1
1,4-Difluorobenzene (Surr)	93		70 - 130				10/27/22 15:04	10/30/22 19:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 04:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 04:27	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Client Sample ID: S-4 (3')

Lab Sample ID: 880-20701-15

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 04:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				10/26/22 16:08	10/29/22 04:27	1
o-Terphenyl	93		70 - 130				10/26/22 16:08	10/29/22 04:27	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8490		99.2		mg/Kg			10/27/22 20:26	20

Client Sample ID: S-4 (4')

Lab Sample ID: 880-20701-16

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 12:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 12:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 12:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/31/22 09:15	10/31/22 12:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 12:03	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/31/22 09:15	10/31/22 12:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	44	S1-	70 - 130				10/31/22 09:15	10/31/22 12:03	1
1,4-Difluorobenzene (Surr)	77		70 - 130				10/31/22 09:15	10/31/22 12:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/31/22 15:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 04:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 04:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 04:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				10/26/22 16:08	10/29/22 04:49	1
o-Terphenyl	91		70 - 130				10/26/22 16:08	10/29/22 04:49	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	182		25.0		mg/Kg			10/27/22 20:35	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Client Sample ID: S-5 (0-1')

Lab Sample ID: 880-20701-17

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/27/22 15:04	10/30/22 19:41	1
Toluene	0.00256		0.00201		mg/Kg		10/27/22 15:04	10/30/22 19:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/27/22 15:04	10/30/22 19:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/27/22 15:04	10/30/22 19:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/27/22 15:04	10/30/22 19:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/27/22 15:04	10/30/22 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/27/22 15:04	10/30/22 19:41	1
1,4-Difluorobenzene (Surr)	113		70 - 130	10/27/22 15:04	10/30/22 19:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 05:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 05:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 05:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	10/26/22 16:08	10/29/22 05:11	1
o-Terphenyl	97		70 - 130	10/26/22 16:08	10/29/22 05:11	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2450		49.9		mg/Kg			10/27/22 20:43	10

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-20701-18

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 20:01	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 20:01	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 20:01	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/27/22 15:04	10/30/22 20:01	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 20:01	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/27/22 15:04	10/30/22 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	10/27/22 15:04	10/30/22 20:01	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/27/22 15:04	10/30/22 20:01	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-20701-18

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 05:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 05:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 05:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				10/26/22 16:08	10/29/22 05:33	1
o-Terphenyl	87		70 - 130				10/26/22 16:08	10/29/22 05:33	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2150		25.0		mg/Kg			10/27/22 20:51	5

Client Sample ID: S-5 (2')

Lab Sample ID: 880-20701-19

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00253		0.00199		mg/Kg		10/27/22 15:04	10/30/22 20:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 20:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 20:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 20:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 20:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 20:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				10/27/22 15:04	10/30/22 20:22	1
1,4-Difluorobenzene (Surr)	108		70 - 130				10/27/22 15:04	10/30/22 20:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 05:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 05:54	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Client Sample ID: S-5 (2')

Lab Sample ID: 880-20701-19

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 05:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				10/26/22 16:08	10/29/22 05:54	1
o-Terphenyl	96		70 - 130				10/26/22 16:08	10/29/22 05:54	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1600		24.9		mg/Kg			10/27/22 21:00	5

Client Sample ID: S-5 (3')

Lab Sample ID: 880-20701-20

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 12:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 12:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 12:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/31/22 09:15	10/31/22 12:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 12:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/31/22 09:15	10/31/22 12:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51	S1-	70 - 130				10/31/22 09:15	10/31/22 12:24	1
1,4-Difluorobenzene (Surr)	79		70 - 130				10/31/22 09:15	10/31/22 12:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/31/22 15:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 06:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 06:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 06:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				10/26/22 16:08	10/29/22 06:16	1
o-Terphenyl	95		70 - 130				10/26/22 16:08	10/29/22 06:16	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1160		25.2		mg/Kg			10/27/22 21:08	5

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Surrogate Summary

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-20701-1	S-1 (0-1')	75	96
880-20701-2	S-1 (1.5')	86	96
880-20701-2 MS	S-1 (1.5')	138 S1+	104
880-20701-2 MSD	S-1 (1.5')	83	95
880-20701-3	S-1 (2')	90	99
880-20701-4	S-2 (0-1')	101	103
880-20701-5	S-2 (1.5')	102	113
880-20701-6	S-2 (2')	96	97
880-20701-7	S-2 (3')	98	96
880-20701-8	S-3 (0-1')	83	98
880-20701-9	S-3 (1.5')	119	119
880-20701-10	S-3 (2')	95	96
880-20701-11	S-3 (3')	113	92
880-20701-12	S-4 (0-1')	60 S1-	83
880-20701-13	S-4 (1.5')	93	97
880-20701-14	S-4 (2')	109	120
880-20701-15	S-4 (3')	78	93
880-20701-16	S-4 (4')	44 S1-	77
880-20701-17	S-5 (0-1')	98	113
880-20701-18	S-5 (1.5')	104	96
880-20701-19	S-5 (2')	105	108
880-20701-20	S-5 (3')	51 S1-	79
890-3303-A-2-B MS	Matrix Spike	105	102
890-3303-A-2-C MSD	Matrix Spike Duplicate	95	95
LCS 880-38029/1-A	Lab Control Sample	89	92
LCS 880-38223/1-A	Lab Control Sample	97	97
LCSD 880-38029/2-A	Lab Control Sample Dup	72	94
LCSD 880-38223/2-A	Lab Control Sample Dup	95	98
MB 880-38029/5-A	Method Blank	114	103
MB 880-38223/5-A	Method Blank	99	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-20701-1	S-1 (0-1')	110	106
880-20701-1 MS	S-1 (0-1')	114	91
880-20701-1 MSD	S-1 (0-1')	85	79
880-20701-2	S-1 (1.5')	90	89
880-20701-3	S-1 (2')	113	111
880-20701-4	S-2 (0-1')	98	95
880-20701-5	S-2 (1.5')	116	113
880-20701-6	S-2 (2')	101	99
880-20701-7	S-2 (3')	95	93

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-20701-1

Project/Site: Shell Federal

SDG: Eddy County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-20701-8	S-3 (0-1')	99	96
880-20701-9	S-3 (1.5')	97	96
880-20701-10	S-3 (2')	120	115
880-20701-11	S-3 (3')	114	110
880-20701-12	S-4 (0-1')	105	104
880-20701-13	S-4 (1.5')	95	94
880-20701-14	S-4 (2')	91	90
880-20701-15	S-4 (3')	95	93
880-20701-16	S-4 (4')	91	91
880-20701-17	S-5 (0-1')	96	97
880-20701-18	S-5 (1.5')	86	87
880-20701-19	S-5 (2')	94	96
880-20701-20	S-5 (3')	92	95
LCS 880-37942/2-A	Lab Control Sample	125	105
LCSD 880-37942/3-A	Lab Control Sample Dup	124	102
MB 880-37942/1-A	Method Blank	84	85

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-38029/5-A

Matrix: Solid

Analysis Batch: 38173

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 12:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 12:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 12:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/27/22 15:04	10/30/22 12:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 12:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/27/22 15:04	10/30/22 12:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	10/27/22 15:04	10/30/22 12:37	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/27/22 15:04	10/30/22 12:37	1

Lab Sample ID: LCS 880-38029/1-A

Matrix: Solid

Analysis Batch: 38173

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09535		mg/Kg		95	70 - 130
Toluene	0.100	0.1090		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1032		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2114		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1102		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-38029/2-A

Matrix: Solid

Analysis Batch: 38173

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 38029

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1020		mg/Kg		102	70 - 130	7	35
Toluene	0.100	0.1051		mg/Kg		105	70 - 130	4	35
Ethylbenzene	0.100	0.09483		mg/Kg		95	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1897		mg/Kg		95	70 - 130	11	35
o-Xylene	0.100	0.09633		mg/Kg		96	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	72		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-20701-2 MS

Matrix: Solid

Analysis Batch: 38173

Client Sample ID: S-1 (1.5')

Prep Type: Total/NA

Prep Batch: 38029

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U F1 F2	0.100	0.01510	F1	mg/Kg		15	70 - 130
Toluene	<0.00198	U	0.100	0.09894		mg/Kg		99	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-20701-2 MS

Matrix: Solid

Analysis Batch: 38173

Client Sample ID: S-1 (1.5')

Prep Type: Total/NA

Prep Batch: 38029

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.100	0.07238		mg/Kg		72	70 - 130
m-Xylene & p-Xylene	<0.00396	U F1 F2	0.200	0.1920		mg/Kg		96	70 - 130
o-Xylene	<0.00198	U F2	0.100	0.1035		mg/Kg		103	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-20701-2 MSD

Matrix: Solid

Analysis Batch: 38173

Client Sample ID: S-1 (1.5')

Prep Type: Total/NA

Prep Batch: 38029

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U F1 F2	0.0990	0.07780	F2	mg/Kg		79	70 - 130	135	35
Toluene	<0.00198	U	0.0990	0.08744		mg/Kg		88	70 - 130	12	35
Ethylbenzene	<0.00198	U	0.0990	0.07170		mg/Kg		72	70 - 130	1	35
m-Xylene & p-Xylene	<0.00396	U F1 F2	0.198	0.1330	F1 F2	mg/Kg		67	70 - 130	36	35
o-Xylene	<0.00198	U F2	0.0990	0.07051	F2	mg/Kg		71	70 - 130	38	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-38223/5-A

Matrix: Solid

Analysis Batch: 38211

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38223

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 11:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 11:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 11:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/31/22 09:15	10/31/22 11:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 11:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/31/22 09:15	10/31/22 11:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/31/22 09:15	10/31/22 11:00	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/31/22 09:15	10/31/22 11:00	1

Lab Sample ID: LCS 880-38223/1-A

Matrix: Solid

Analysis Batch: 38211

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38223

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08506		mg/Kg		85	70 - 130
Toluene	0.100	0.09233		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09305		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1814		mg/Kg		91	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-38223/1-A

Matrix: Solid

Analysis Batch: 38211

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38223

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1022		mg/Kg		102	70 - 130

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

Lab Sample ID: LCSD 880-38223/2-A

Matrix: Solid

Analysis Batch: 38211

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 38223

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09133		mg/Kg		91	70 - 130	7	35
Toluene	0.100	0.09725		mg/Kg		97	70 - 130	5	35
Ethylbenzene	0.100	0.09938		mg/Kg		99	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1886		mg/Kg		94	70 - 130	4	35
o-Xylene	0.100	0.1064		mg/Kg		106	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-3303-A-2-B MS

Matrix: Solid

Analysis Batch: 38211

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 38223

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0990	0.08354		mg/Kg		83	70 - 130
Toluene	<0.00200	U	0.0990	0.08996		mg/Kg		91	70 - 130
Ethylbenzene	<0.00200	U	0.0990	0.09006		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.198	0.1808		mg/Kg		91	70 - 130
o-Xylene	<0.00200	U	0.0990	0.1013		mg/Kg		102	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-3303-A-2-C MSD

Matrix: Solid

Analysis Batch: 38211

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 38223

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.07830		mg/Kg		77	70 - 130	6	35
Toluene	<0.00200	U	0.100	0.08671		mg/Kg		87	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.100	0.07853		mg/Kg		78	70 - 130	14	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1517		mg/Kg		76	70 - 130	18	35
o-Xylene	<0.00200	U	0.100	0.08529		mg/Kg		85	70 - 130	17	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-3303-A-2-C MSD

Matrix: Solid

Analysis Batch: 38211

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 38223

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

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

Lab Sample ID: MB 880-37942/1-A

Matrix: Solid

Analysis Batch: 38052

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37942

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/28/22 21:13	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/28/22 21:13	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/28/22 21:13	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	84		70 - 130				10/26/22 16:08	10/28/22 21:13	1	
o-Terphenyl	85		70 - 130				10/26/22 16:08	10/28/22 21:13	1	

Lab Sample ID: LCS 880-37942/2-A

Matrix: Solid

Analysis Batch: 38052

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37942

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	850.0		mg/Kg		85	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	938.7		mg/Kg		94	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	125		70 - 130							
o-Terphenyl	105		70 - 130							

Lab Sample ID: LCSD 880-37942/3-A

Matrix: Solid

Analysis Batch: 38052

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37942

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	821.4		mg/Kg		82	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)			1000	922.0		mg/Kg		92	70 - 130	2	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	124		70 - 130									
o-Terphenyl	102		70 - 130									

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-20701-1 MS

Matrix: Solid

Analysis Batch: 38052

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

Prep Type: Total/NA

Prep Batch: 37942

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	743.9		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	91.2		998	974.1		mg/Kg		88	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	114		70 - 130						
o-Terphenyl	91		70 - 130						

Lab Sample ID: 880-20701-1 MSD

Matrix: Solid

Analysis Batch: 38052

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

Prep Type: Total/NA

Prep Batch: 37942

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	771.9		mg/Kg		77	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	91.2		998	861.1		mg/Kg		77	70 - 130	12	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	85		70 - 130								
o-Terphenyl	79		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-37801/1-A

Matrix: Solid

Analysis Batch: 38044

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/27/22 16:57	1

Lab Sample ID: LCS 880-37801/2-A

Matrix: Solid

Analysis Batch: 38044

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.8		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-37801/3-A

Matrix: Solid

Analysis Batch: 38044

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	255.1		mg/Kg		102	90 - 110	0	20

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-20701-1 MS

Matrix: Solid

Analysis Batch: 38044

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	18300		12400	29820		mg/Kg		93	90 - 110		

Lab Sample ID: 880-20701-1 MSD

Matrix: Solid

Analysis Batch: 38044

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	18300		12400	31110		mg/Kg		103	90 - 110	4	20

Lab Sample ID: 880-20701-11 MS

Matrix: Solid

Analysis Batch: 38044

Client Sample ID: S-3 (3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	160		250	402.2		mg/Kg		97	90 - 110		

Lab Sample ID: 880-20701-11 MSD

Matrix: Solid

Analysis Batch: 38044

Client Sample ID: S-3 (3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	160		250	402.9		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 38029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-1	S-1 (0-1')	Total/NA	Solid	5035	
880-20701-2	S-1 (1.5')	Total/NA	Solid	5035	
880-20701-3	S-1 (2')	Total/NA	Solid	5035	
880-20701-4	S-2 (0-1')	Total/NA	Solid	5035	
880-20701-5	S-2 (1.5')	Total/NA	Solid	5035	
880-20701-6	S-2 (2')	Total/NA	Solid	5035	
880-20701-7	S-2 (3')	Total/NA	Solid	5035	
880-20701-8	S-3 (0-1')	Total/NA	Solid	5035	
880-20701-9	S-3 (1.5')	Total/NA	Solid	5035	
880-20701-10	S-3 (2')	Total/NA	Solid	5035	
880-20701-11	S-3 (3')	Total/NA	Solid	5035	
880-20701-12	S-4 (0-1')	Total/NA	Solid	5035	
880-20701-13	S-4 (1.5')	Total/NA	Solid	5035	
880-20701-14	S-4 (2')	Total/NA	Solid	5035	
880-20701-15	S-4 (3')	Total/NA	Solid	5035	
880-20701-17	S-5 (0-1')	Total/NA	Solid	5035	
880-20701-18	S-5 (1.5')	Total/NA	Solid	5035	
880-20701-19	S-5 (2')	Total/NA	Solid	5035	
MB 880-38029/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38029/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38029/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20701-2 MS	S-1 (1.5')	Total/NA	Solid	5035	
880-20701-2 MSD	S-1 (1.5')	Total/NA	Solid	5035	

Analysis Batch: 38173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-1	S-1 (0-1')	Total/NA	Solid	8021B	38029
880-20701-2	S-1 (1.5')	Total/NA	Solid	8021B	38029
880-20701-3	S-1 (2')	Total/NA	Solid	8021B	38029
880-20701-4	S-2 (0-1')	Total/NA	Solid	8021B	38029
880-20701-5	S-2 (1.5')	Total/NA	Solid	8021B	38029
880-20701-6	S-2 (2')	Total/NA	Solid	8021B	38029
880-20701-7	S-2 (3')	Total/NA	Solid	8021B	38029
880-20701-8	S-3 (0-1')	Total/NA	Solid	8021B	38029
880-20701-9	S-3 (1.5')	Total/NA	Solid	8021B	38029
880-20701-10	S-3 (2')	Total/NA	Solid	8021B	38029
880-20701-11	S-3 (3')	Total/NA	Solid	8021B	38029
880-20701-12	S-4 (0-1')	Total/NA	Solid	8021B	38029
880-20701-13	S-4 (1.5')	Total/NA	Solid	8021B	38029
880-20701-14	S-4 (2')	Total/NA	Solid	8021B	38029
880-20701-15	S-4 (3')	Total/NA	Solid	8021B	38029
880-20701-17	S-5 (0-1')	Total/NA	Solid	8021B	38029
880-20701-18	S-5 (1.5')	Total/NA	Solid	8021B	38029
880-20701-19	S-5 (2')	Total/NA	Solid	8021B	38029
MB 880-38029/5-A	Method Blank	Total/NA	Solid	8021B	38029
LCS 880-38029/1-A	Lab Control Sample	Total/NA	Solid	8021B	38029
LCSD 880-38029/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38029
880-20701-2 MS	S-1 (1.5')	Total/NA	Solid	8021B	38029
880-20701-2 MSD	S-1 (1.5')	Total/NA	Solid	8021B	38029

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 38211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-16	S-4 (4')	Total/NA	Solid	8021B	38223
880-20701-20	S-5 (3')	Total/NA	Solid	8021B	38223
MB 880-38223/5-A	Method Blank	Total/NA	Solid	8021B	38223
LCS 880-38223/1-A	Lab Control Sample	Total/NA	Solid	8021B	38223
LCSD 880-38223/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38223
890-3303-A-2-B MS	Matrix Spike	Total/NA	Solid	8021B	38223
890-3303-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	38223

Prep Batch: 38223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-16	S-4 (4')	Total/NA	Solid	5035	
880-20701-20	S-5 (3')	Total/NA	Solid	5035	
MB 880-38223/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38223/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38223/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3303-A-2-B MS	Matrix Spike	Total/NA	Solid	5035	
890-3303-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 38246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-20701-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-20701-3	S-1 (2')	Total/NA	Solid	Total BTEX	
880-20701-4	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-20701-5	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-20701-6	S-2 (2')	Total/NA	Solid	Total BTEX	
880-20701-7	S-2 (3')	Total/NA	Solid	Total BTEX	
880-20701-8	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-20701-9	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-20701-10	S-3 (2')	Total/NA	Solid	Total BTEX	
880-20701-11	S-3 (3')	Total/NA	Solid	Total BTEX	
880-20701-12	S-4 (0-1')	Total/NA	Solid	Total BTEX	
880-20701-13	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-20701-14	S-4 (2')	Total/NA	Solid	Total BTEX	
880-20701-15	S-4 (3')	Total/NA	Solid	Total BTEX	
880-20701-16	S-4 (4')	Total/NA	Solid	Total BTEX	
880-20701-17	S-5 (0-1')	Total/NA	Solid	Total BTEX	
880-20701-18	S-5 (1.5')	Total/NA	Solid	Total BTEX	
880-20701-19	S-5 (2')	Total/NA	Solid	Total BTEX	
880-20701-20	S-5 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 37942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-20701-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-20701-3	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-20701-4	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-20701-5	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-20701-6	S-2 (2')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 37942 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-7	S-2 (3')	Total/NA	Solid	8015NM Prep	
880-20701-8	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-20701-9	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-20701-10	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-20701-11	S-3 (3')	Total/NA	Solid	8015NM Prep	
880-20701-12	S-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-20701-13	S-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-20701-14	S-4 (2')	Total/NA	Solid	8015NM Prep	
880-20701-15	S-4 (3')	Total/NA	Solid	8015NM Prep	
880-20701-16	S-4 (4')	Total/NA	Solid	8015NM Prep	
880-20701-17	S-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-20701-18	S-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-20701-19	S-5 (2')	Total/NA	Solid	8015NM Prep	
880-20701-20	S-5 (3')	Total/NA	Solid	8015NM Prep	
MB 880-37942/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-37942/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-37942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-20701-1 MS	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-20701-1 MSD	S-1 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 38052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-1	S-1 (0-1')	Total/NA	Solid	8015B NM	37942
880-20701-2	S-1 (1.5')	Total/NA	Solid	8015B NM	37942
880-20701-3	S-1 (2')	Total/NA	Solid	8015B NM	37942
880-20701-4	S-2 (0-1')	Total/NA	Solid	8015B NM	37942
880-20701-5	S-2 (1.5')	Total/NA	Solid	8015B NM	37942
880-20701-6	S-2 (2')	Total/NA	Solid	8015B NM	37942
880-20701-7	S-2 (3')	Total/NA	Solid	8015B NM	37942
880-20701-8	S-3 (0-1')	Total/NA	Solid	8015B NM	37942
880-20701-9	S-3 (1.5')	Total/NA	Solid	8015B NM	37942
880-20701-10	S-3 (2')	Total/NA	Solid	8015B NM	37942
880-20701-11	S-3 (3')	Total/NA	Solid	8015B NM	37942
880-20701-12	S-4 (0-1')	Total/NA	Solid	8015B NM	37942
880-20701-13	S-4 (1.5')	Total/NA	Solid	8015B NM	37942
880-20701-14	S-4 (2')	Total/NA	Solid	8015B NM	37942
880-20701-15	S-4 (3')	Total/NA	Solid	8015B NM	37942
880-20701-16	S-4 (4')	Total/NA	Solid	8015B NM	37942
880-20701-17	S-5 (0-1')	Total/NA	Solid	8015B NM	37942
880-20701-18	S-5 (1.5')	Total/NA	Solid	8015B NM	37942
880-20701-19	S-5 (2')	Total/NA	Solid	8015B NM	37942
880-20701-20	S-5 (3')	Total/NA	Solid	8015B NM	37942
MB 880-37942/1-A	Method Blank	Total/NA	Solid	8015B NM	37942
LCS 880-37942/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37942
LCSD 880-37942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37942
880-20701-1 MS	S-1 (0-1')	Total/NA	Solid	8015B NM	37942
880-20701-1 MSD	S-1 (0-1')	Total/NA	Solid	8015B NM	37942

Analysis Batch: 38294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-1	S-1 (0-1')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 38294 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-20701-3	S-1 (2')	Total/NA	Solid	8015 NM	
880-20701-4	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-20701-5	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-20701-6	S-2 (2')	Total/NA	Solid	8015 NM	
880-20701-7	S-2 (3')	Total/NA	Solid	8015 NM	
880-20701-8	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-20701-9	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-20701-10	S-3 (2')	Total/NA	Solid	8015 NM	
880-20701-11	S-3 (3')	Total/NA	Solid	8015 NM	
880-20701-12	S-4 (0-1')	Total/NA	Solid	8015 NM	
880-20701-13	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-20701-14	S-4 (2')	Total/NA	Solid	8015 NM	
880-20701-15	S-4 (3')	Total/NA	Solid	8015 NM	
880-20701-16	S-4 (4')	Total/NA	Solid	8015 NM	
880-20701-17	S-5 (0-1')	Total/NA	Solid	8015 NM	
880-20701-18	S-5 (1.5')	Total/NA	Solid	8015 NM	
880-20701-19	S-5 (2')	Total/NA	Solid	8015 NM	
880-20701-20	S-5 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 37801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-20701-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-20701-3	S-1 (2')	Soluble	Solid	DI Leach	
880-20701-4	S-2 (0-1')	Soluble	Solid	DI Leach	
880-20701-5	S-2 (1.5')	Soluble	Solid	DI Leach	
880-20701-6	S-2 (2')	Soluble	Solid	DI Leach	
880-20701-7	S-2 (3')	Soluble	Solid	DI Leach	
880-20701-8	S-3 (0-1')	Soluble	Solid	DI Leach	
880-20701-9	S-3 (1.5')	Soluble	Solid	DI Leach	
880-20701-10	S-3 (2')	Soluble	Solid	DI Leach	
880-20701-11	S-3 (3')	Soluble	Solid	DI Leach	
880-20701-12	S-4 (0-1')	Soluble	Solid	DI Leach	
880-20701-13	S-4 (1.5')	Soluble	Solid	DI Leach	
880-20701-14	S-4 (2')	Soluble	Solid	DI Leach	
880-20701-15	S-4 (3')	Soluble	Solid	DI Leach	
880-20701-16	S-4 (4')	Soluble	Solid	DI Leach	
880-20701-17	S-5 (0-1')	Soluble	Solid	DI Leach	
880-20701-18	S-5 (1.5')	Soluble	Solid	DI Leach	
880-20701-19	S-5 (2')	Soluble	Solid	DI Leach	
880-20701-20	S-5 (3')	Soluble	Solid	DI Leach	
MB 880-37801/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-37801/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-37801/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20701-1 MS	S-1 (0-1')	Soluble	Solid	DI Leach	
880-20701-1 MSD	S-1 (0-1')	Soluble	Solid	DI Leach	
880-20701-11 MS	S-3 (3')	Soluble	Solid	DI Leach	
880-20701-11 MSD	S-3 (3')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

HPLC/IC

Analysis Batch: 38044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-1	S-1 (0-1')	Soluble	Solid	300.0	37801
880-20701-2	S-1 (1.5')	Soluble	Solid	300.0	37801
880-20701-3	S-1 (2')	Soluble	Solid	300.0	37801
880-20701-4	S-2 (0-1')	Soluble	Solid	300.0	37801
880-20701-5	S-2 (1.5')	Soluble	Solid	300.0	37801
880-20701-6	S-2 (2')	Soluble	Solid	300.0	37801
880-20701-7	S-2 (3')	Soluble	Solid	300.0	37801
880-20701-8	S-3 (0-1')	Soluble	Solid	300.0	37801
880-20701-9	S-3 (1.5')	Soluble	Solid	300.0	37801
880-20701-10	S-3 (2')	Soluble	Solid	300.0	37801
880-20701-11	S-3 (3')	Soluble	Solid	300.0	37801
880-20701-12	S-4 (0-1')	Soluble	Solid	300.0	37801
880-20701-13	S-4 (1.5')	Soluble	Solid	300.0	37801
880-20701-14	S-4 (2')	Soluble	Solid	300.0	37801
880-20701-15	S-4 (3')	Soluble	Solid	300.0	37801
880-20701-16	S-4 (4')	Soluble	Solid	300.0	37801
880-20701-17	S-5 (0-1')	Soluble	Solid	300.0	37801
880-20701-18	S-5 (1.5')	Soluble	Solid	300.0	37801
880-20701-19	S-5 (2')	Soluble	Solid	300.0	37801
880-20701-20	S-5 (3')	Soluble	Solid	300.0	37801
MB 880-37801/1-A	Method Blank	Soluble	Solid	300.0	37801
LCS 880-37801/2-A	Lab Control Sample	Soluble	Solid	300.0	37801
LCSD 880-37801/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	37801
880-20701-1 MS	S-1 (0-1')	Soluble	Solid	300.0	37801
880-20701-1 MSD	S-1 (0-1')	Soluble	Solid	300.0	37801
880-20701-11 MS	S-3 (3')	Soluble	Solid	300.0	37801
880-20701-11 MSD	S-3 (3')	Soluble	Solid	300.0	37801

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-20701-1

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	38173	10/30/22 16:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/28/22 22:18	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	38044	10/27/22 17:22	CH	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-20701-2

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 13:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/28/22 23:22	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38044	10/27/22 17:47	CH	EET MID

Client Sample ID: S-1 (2')

Lab Sample ID: 880-20701-3

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 13:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/28/22 23:44	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38044	10/27/22 17:56	CH	EET MID

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

Lab Sample ID: 880-20701-4

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 13:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-20701-4

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 00:05	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	38044	10/27/22 18:04	CH	EET MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-20701-5

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 14:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 00:26	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	38044	10/27/22 18:12	CH	EET MID

Client Sample ID: S-2 (2')

Lab Sample ID: 880-20701-6

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 14:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 00:48	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38044	10/27/22 18:37	CH	EET MID

Client Sample ID: S-2 (3')

Lab Sample ID: 880-20701-7

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 14:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 01:10	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (3')

Lab Sample ID: 880-20701-7

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38044	10/27/22 18:46	CH	EET MID

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

Lab Sample ID: 880-20701-8

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 15:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 01:31	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	38044	10/27/22 18:54	CH	EET MID

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-20701-9

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 15:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 01:53	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	38044	10/27/22 19:03	CH	EET MID

Client Sample ID: S-3 (2')

Lab Sample ID: 880-20701-10

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 15:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 02:15	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38044	10/27/22 19:11	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (3')

Lab Sample ID: 880-20701-11

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 17:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 02:59	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38044	10/27/22 19:19	CH	EET MID

Client Sample ID: S-4 (0-1')

Lab Sample ID: 880-20701-12

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	38173	10/30/22 21:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 03:21	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	38044	10/27/22 19:44	CH	EET MID

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-20701-13

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 18:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 03:43	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	38044	10/27/22 19:53	CH	EET MID

Client Sample ID: S-4 (2')

Lab Sample ID: 880-20701-14

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

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	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 18:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Client Sample ID: S-4 (2')

Date Collected: 10/24/22 00:00

Date Received: 10/25/22 09:36

Lab Sample ID: 880-20701-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 04:05	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	38044	10/27/22 20:18	CH	EET MID

Client Sample ID: S-4 (3')

Date Collected: 10/24/22 00:00

Date Received: 10/25/22 09:36

Lab Sample ID: 880-20701-15

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	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 19:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 04:27	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	38044	10/27/22 20:26	CH	EET MID

Client Sample ID: S-4 (4')

Date Collected: 10/24/22 00:00

Date Received: 10/25/22 09:36

Lab Sample ID: 880-20701-16

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	38223	10/31/22 09:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38211	10/31/22 12:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 15:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 04:49	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38044	10/27/22 20:35	CH	EET MID

Client Sample ID: S-5 (0-1')

Date Collected: 10/24/22 00:00

Date Received: 10/25/22 09:36

Lab Sample ID: 880-20701-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 19:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 05:11	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Client Sample ID: S-5 (0-1')**Lab Sample ID: 880-20701-17****Date Collected: 10/24/22 00:00****Matrix: Solid****Date Received: 10/25/22 09:36**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	38044	10/27/22 20:43	CH	EET MID

Client Sample ID: S-5 (1.5')**Lab Sample ID: 880-20701-18****Date Collected: 10/24/22 00:00****Matrix: Solid****Date Received: 10/25/22 09:36**

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	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 20:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 05:33	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38044	10/27/22 20:51	CH	EET MID

Client Sample ID: S-5 (2')**Lab Sample ID: 880-20701-19****Date Collected: 10/24/22 00:00****Matrix: Solid****Date Received: 10/25/22 09:36**

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	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 20:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 05:54	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38044	10/27/22 21:00	CH	EET MID

Client Sample ID: S-5 (3')**Lab Sample ID: 880-20701-20****Date Collected: 10/24/22 00:00****Matrix: Solid****Date Received: 10/25/22 09:36**

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	38223	10/31/22 09:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38211	10/31/22 12:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 15:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 06:16	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38044	10/27/22 21:08	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

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

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

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Method Summary

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-20701-1	S-1 (0-1')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-2	S-1 (1.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-3	S-1 (2')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-4	S-2 (0-1')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-5	S-2 (1.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-6	S-2 (2')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-7	S-2 (3')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-8	S-3 (0-1')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-9	S-3 (1.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-10	S-3 (2')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-11	S-3 (3')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-12	S-4 (0-1')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-13	S-4 (1.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-14	S-4 (2')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-15	S-4 (3')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-16	S-4 (4')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-17	S-5 (0-1')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-18	S-5 (1.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-19	S-5 (2')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-20	S-5 (3')	Solid	10/24/22 00:00	10/25/22 09:36

Work Order No: 20701

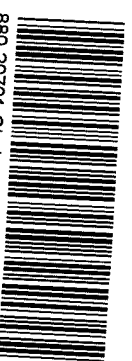
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Project Manager	Conner Moehring	Bill to (if different)	Grant Huckabay
Company Name	Carmona Resources	Company Name	Fasken Oil and Ranch
Address	310 W Wall St Ste 415	Address	6101 Holiday Hill Road
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, Texas 79707
Phone	432-813-6823	Email	GrantH@for.com


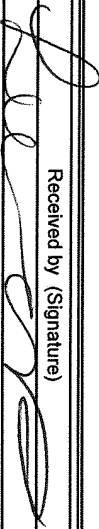
Work Order Comments			
Program: UST/PST	<input type="checkbox"/> PRP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> RC
State of Project:			
Reporting Level II	<input type="checkbox"/> Level III	<input type="checkbox"/> ST/UST	<input type="checkbox"/> RRP
Deliverables: EDD	<input type="checkbox"/>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

Project Name	Shell Federal	Turn Around	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number	1155																None NO	DI Water H ₂ O	
Project Location	Eddy County, New Mexico	Due Date															Cool Cool	MeOH Me	
Sampler's Name	CRM																HCL HC	HNO ₃ HN	
PO #																	H ₂ SO ₄ H ₂	NaOH Na	
SAMPLE RECEIPT	Temp Blank: Yes No	Yes No	Well Ice	Yes No													H ₃ PO ₄ HP		
Received Intact:	Yes No	Thermometer ID															NaHSO ₄ NABIS		
Cooler Custody Seals	Yes No	Correction Factor															Na ₂ S ₂ O ₃ NaSO ₃		
Sample Custody Seals	Yes No	Temperature Reading															Zn Acetate+NaOH Zn		
Total Containers		Corrected Temperature															NaOH+Ascorbic Acid SAPC		

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters												Sample Comments
S-1 (0-1')	10/24/2022		X		G	1	BTX 8021B												402 JCV
S-1 (1.5')	10/24/2022		X		G	1	TPH 8015M (GRO + DRO + MRO)												
S-1 (2')	10/24/2022		X		G	1	Chloride 300.0												
S-2 (0-1')	10/24/2022		X		G	1													
S-2 (1.5')	10/24/2022		X		G	1													
S-2 (2')	10/24/2022		X		G	1													
S-2 (3')	10/24/2022		X		G	1													
S-3 (0-1')	10/24/2022		X		G	1													
S-3 (1.5')	10/24/2022		X		G	1													
S-3 (2')	10/24/2022		X		G	1													



880-20701 Chain of Custody

Comments:	
Relinquished by (Signature)	Date/Time
	10/23/22 9:30
Received by (Signature)	Date/Time
	

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Work Order No: 20701

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Project Manager	Conner Moehring	Bill to (if different)	Grant Huckabee
Company Name	Carmona Resources	Company Name	Fasken Oil and Ranch
Address	310 W Wall St Ste 415	Address	6101 Holiday Hill Road
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, Texas 79707
Phone	432-813-6823	Email	GrantH@forl.com

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

Project Name	Shell Federal		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number	1155		<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush														None NO	DI Water H ₂ O	
Project Location	Eddy County, New Mexico		Due Date															Cool Cool	MeOH Me	
Sampler's Name	CRM																	HCL HC	HNO ₃ HN	
PO #																		H ₂ SO ₄ H ₂	NaOH Na	
SAMPLE RECEIPT	Temp Blank	Yes No	Thermometer ID	Yes No	Wet Ice	Yes No													H ₃ PO ₄ HP	
Received Intact	Yes No		Correction Factor																NaHSO ₄ NABIS	
Cooler Custody Seals	Yes No	N/A	Temperature Reading																Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals	Yes No	N/A	Corrected Temperature																Zn Acetate+NaOH Zn	
Total Containers																			NaOH+Ascorbic Acid S APC	

Sample Identification	Date	Time	Soil	Water	Grab/ Cont	# of Cont	Parameters												Sample Comments
S-3 (3)	10/24/2022		X		G	1	BTEX 8021B												Loc 880 20701
S-4 (0-1')	10/24/2022		X		G	1	TPH 8015M (GRO + DRO + MRO)												
S-4 (1 5')	10/24/2022		X		G	1	Chloride 300.0												
S-4 (2)	10/24/2022		X		G	1													
S-4 (3)	10/24/2022		X		G	1													
S-4 (4)	10/24/2022		X		G	1													
S-5 (0-1')	10/24/2022		X		G	1													
S-5 (1 5')	10/24/2022		X		G	1													
S-5 (2)	10/24/2022		X		G	1													
S-5 (3)	10/24/2022		X		G	1													

Comments:

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	10/25/22 936		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-20701-1

SDG Number: Eddy County, New Mexico

Login Number: 20701

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Grant Huckabay
Fasken Oil and Ranch
6101 Holiday Hill Road
Midland, Texas 79707

Generated 1/26/2023 3:24:14 PM

JOB DESCRIPTION

Shell Fed #2

JOB NUMBER

880-24038-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland**Job Notes**

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

Authorization

Generated
1/26/2023 3:24:14 PM

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

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Laboratory Job ID: 880-24038-1

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Definitions/Glossary

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low 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: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

Job ID: 880-24038-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-24038-1****Receipt**

The samples were received on 1/24/2023 11:14 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

Receipt Exceptions

The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-44619 and analytical batch 880-44613 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-N (880-24038-2) and SW-E (880-24038-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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 samples were outside control limits: (880-24038-A-1-F MS) and (880-24038-A-1-G MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-44632 and analytical batch 880-44690 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: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

Client Sample ID: BH

Lab Sample ID: 880-24038-1

Date Collected: 01/23/23 11:00

Matrix: Solid

Date Received: 01/24/23 11:14

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/24/23 23:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/24/23 23:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/24/23 23:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/24/23 11:27	01/24/23 23:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/24/23 23:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/23 11:27	01/24/23 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	01/24/23 11:27	01/24/23 23:29	1
1,4-Difluorobenzene (Surr)	92		70 - 130	01/24/23 11:27	01/24/23 23:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/25/23 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/26/23 14:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/23 08:39	01/25/23 13:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/23 08:39	01/25/23 13:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/23 08:39	01/25/23 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	01/25/23 08:39	01/25/23 13:17	1
o-Terphenyl	84		70 - 130	01/25/23 08:39	01/25/23 13:17	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U F1	5.02		mg/Kg			01/25/23 07:32	1

Client Sample ID: SW-N

Lab Sample ID: 880-24038-2

Date Collected: 01/23/23 11:15

Matrix: Solid

Date Received: 01/24/23 11:14

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/23 11:27	01/24/23 23:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/23 11:27	01/24/23 23:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/23 11:27	01/24/23 23:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/24/23 11:27	01/24/23 23:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/23 11:27	01/24/23 23:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/24/23 11:27	01/24/23 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130	01/24/23 11:27	01/24/23 23:50	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

Client Sample ID: SW-N

Lab Sample ID: 880-24038-2

Date Collected: 01/23/23 11:15

Matrix: Solid

Date Received: 01/24/23 11:14

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	01/24/23 11:27	01/24/23 23:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/25/23 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/26/23 14:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/25/23 08:39	01/25/23 14:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/25/23 08:39	01/25/23 14:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/25/23 08:39	01/25/23 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				01/25/23 08:39	01/25/23 14:25	1
o-Terphenyl	92		70 - 130				01/25/23 08:39	01/25/23 14:25	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			01/25/23 07:51	1

Client Sample ID: SW-S

Lab Sample ID: 880-24038-3

Date Collected: 01/23/23 11:32

Matrix: Solid

Date Received: 01/24/23 11:14

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/24/23 11:27	01/25/23 00:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/24/23 11:27	01/25/23 00:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/24/23 11:27	01/25/23 00:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/24/23 11:27	01/25/23 00:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/24/23 11:27	01/25/23 00:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/24/23 11:27	01/25/23 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	01/24/23 11:27	01/25/23 00:11	1
1,4-Difluorobenzene (Surr)	97		70 - 130	01/24/23 11:27	01/25/23 00:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/25/23 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/26/23 14:54	1

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Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

Client Sample ID: SW-S

Lab Sample ID: 880-24038-3

Date Collected: 01/23/23 11:32

Matrix: Solid

Date Received: 01/24/23 11:14

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/23 08:39	01/25/23 14:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/23 08:39	01/25/23 14:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/23 08:39	01/25/23 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				01/25/23 08:39	01/25/23 14:48	1
o-Terphenyl	82		70 - 130				01/25/23 08:39	01/25/23 14:48	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.7		4.99		mg/Kg			01/25/23 07:57	1

Client Sample ID: SW-E

Lab Sample ID: 880-24038-4

Date Collected: 01/23/23 11:45

Matrix: Solid

Date Received: 01/24/23 11:14

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/25/23 00:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/25/23 00:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/25/23 00:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/24/23 11:27	01/25/23 00:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/25/23 00:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/23 11:27	01/25/23 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130				01/24/23 11:27	01/25/23 00:32	1
1,4-Difluorobenzene (Surr)	90		70 - 130				01/24/23 11:27	01/25/23 00:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/25/23 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/26/23 14:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/23 08:39	01/25/23 15:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/23 08:39	01/25/23 15:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/23 08:39	01/25/23 15:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				01/25/23 08:39	01/25/23 15:10	1
o-Terphenyl	83		70 - 130				01/25/23 08:39	01/25/23 15:10	1

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Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

Client Sample ID: SW-E

Lab Sample ID: 880-24038-4

Date Collected: 01/23/23 11:45

Matrix: Solid

Date Received: 01/24/23 11:14

Sample Depth: 4'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.5		5.05		mg/Kg			01/25/23 08:03	1

Client Sample ID: SW-W

Lab Sample ID: 880-24038-5

Date Collected: 01/23/23 12:00

Matrix: Solid

Date Received: 01/24/23 11:14

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/25/23 00:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/25/23 00:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/25/23 00:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/24/23 11:27	01/25/23 00:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/25/23 00:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/23 11:27	01/25/23 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				01/24/23 11:27	01/25/23 00:52	1
1,4-Difluorobenzene (Surr)	94		70 - 130				01/24/23 11:27	01/25/23 00:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/25/23 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/26/23 14:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/25/23 08:39	01/25/23 15:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/25/23 08:39	01/25/23 15:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/25/23 08:39	01/25/23 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				01/25/23 08:39	01/25/23 15:33	1
o-Terphenyl	80		70 - 130				01/25/23 08:39	01/25/23 15:33	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.9		5.04		mg/Kg			01/25/23 09:05	1

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Surrogate Summary

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-24038-1	BH	77	92
880-24038-2	SW-N	60 S1-	91
880-24038-3	SW-S	102	97
880-24038-4	SW-E	59 S1-	90
880-24038-5	SW-W	79	94
880-24039-A-1-A MS	Matrix Spike	102	101
880-24039-A-1-B MSD	Matrix Spike Duplicate	88	103
LCS 880-44619/1-A	Lab Control Sample	98	109
LCSD 880-44619/2-A	Lab Control Sample Dup	90	107
MB 880-44550/5-A	Method Blank	75	91
MB 880-44619/5-A	Method Blank	70	100
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-24038-1	BH	87	84
880-24038-1 MS	BH	79	68 S1-
880-24038-1 MSD	BH	75	64 S1-
880-24038-2	SW-N	90	92
880-24038-3	SW-S	82	82
880-24038-4	SW-E	83	83
880-24038-5	SW-W	79	80
LCS 880-44696/2-A	Lab Control Sample	95	93
LCSD 880-44696/3-A	Lab Control Sample Dup	90	93
MB 880-44696/1-A	Method Blank	100	98
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-44550/5-A

Matrix: Solid

Analysis Batch: 44613

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44550

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/23/23 15:50	01/24/23 11:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/23/23 15:50	01/24/23 11:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/23/23 15:50	01/24/23 11:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/23/23 15:50	01/24/23 11:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/23/23 15:50	01/24/23 11:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/23/23 15:50	01/24/23 11:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	01/23/23 15:50	01/24/23 11:43	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/23/23 15:50	01/24/23 11:43	1

Lab Sample ID: MB 880-44619/5-A

Matrix: Solid

Analysis Batch: 44613

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/23 11:27	01/24/23 22:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/23 11:27	01/24/23 22:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/23 11:27	01/24/23 22:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/24/23 11:27	01/24/23 22:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/23 11:27	01/24/23 22:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/24/23 11:27	01/24/23 22:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	01/24/23 11:27	01/24/23 22:25	1
1,4-Difluorobenzene (Surr)	100		70 - 130	01/24/23 11:27	01/24/23 22:25	1

Lab Sample ID: LCS 880-44619/1-A

Matrix: Solid

Analysis Batch: 44613

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09605		mg/Kg		96	70 - 130
Toluene	0.100	0.08702		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08377		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1763		mg/Kg		88	70 - 130
o-Xylene	0.100	0.08841		mg/Kg		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-44619/2-A

Matrix: Solid

Analysis Batch: 44613

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44619

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1159		mg/Kg		116	70 - 130	19	35

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

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

Lab Sample ID: LCSD 880-44619/2-A

Matrix: Solid

Analysis Batch: 44613

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44619

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1003		mg/Kg		100	70 - 130	14	35
Ethylbenzene	0.100	0.09225		mg/Kg		92	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1845		mg/Kg		92	70 - 130	5	35
o-Xylene	0.100	0.09078		mg/Kg		91	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-24039-A-1-A MS

Matrix: Solid

Analysis Batch: 44613

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 44619

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1 F2	0.100	0.08688		mg/Kg		87	70 - 130
Toluene	<0.00201	U F1 F2	0.100	0.07578		mg/Kg		75	70 - 130
Ethylbenzene	<0.00201	U F1 F2	0.100	0.07485		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.200	0.1510		mg/Kg		75	70 - 130
o-Xylene	<0.00201	U F1 F2	0.100	0.07657		mg/Kg		76	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-24039-A-1-B MSD

Matrix: Solid

Analysis Batch: 44613

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 44619

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1 F2	0.0990	0.05391	F1 F2	mg/Kg		54	70 - 130	47	35
Toluene	<0.00201	U F1 F2	0.0990	0.04769	F1 F2	mg/Kg		47	70 - 130	45	35
Ethylbenzene	<0.00201	U F1 F2	0.0990	0.04696	F1 F2	mg/Kg		47	70 - 130	46	35
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.198	0.09156	F1 F2	mg/Kg		46	70 - 130	49	35
o-Xylene	<0.00201	U F1 F2	0.0990	0.04738	F1 F2	mg/Kg		47	70 - 130	47	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-44696/1-A

Matrix: Solid

Analysis Batch: 44706

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44696

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/25/23 08:39	01/25/23 10:43	1

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

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

Lab Sample ID: MB 880-44696/1-A

Matrix: Solid

Analysis Batch: 44706

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44696

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/25/23 08:39	01/25/23 10:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/25/23 08:39	01/25/23 10:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				01/25/23 08:39	01/25/23 10:43	1
o-Terphenyl	98		70 - 130				01/25/23 08:39	01/25/23 10:43	1

Lab Sample ID: LCS 880-44696/2-A

Matrix: Solid

Analysis Batch: 44706

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	999	812.5		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	999	951.2		mg/Kg		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	95		70 - 130				
o-Terphenyl	93		70 - 130				

Lab Sample ID: LCSD 880-44696/3-A

Matrix: Solid

Analysis Batch: 44706

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44696

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	999	900.8		mg/Kg		90	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	999	934.5		mg/Kg		94	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	90		70 - 130						
o-Terphenyl	93		70 - 130						

Lab Sample ID: 880-24038-1 MS

Matrix: Solid

Analysis Batch: 44706

Client Sample ID: BH

Prep Type: Total/NA

Prep Batch: 44696

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	909.8		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1098		mg/Kg		108	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	79		70 - 130						
o-Terphenyl	68	S1-	70 - 130						

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

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

Lab Sample ID: 880-24038-1 MSD

Matrix: Solid

Analysis Batch: 44706

Client Sample ID: BH

Prep Type: Total/NA

Prep Batch: 44696

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	829.8		mg/Kg		79	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1020		mg/Kg		101	70 - 130	7	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	75		70 - 130								
o-Terphenyl	64	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44632/1-A

Matrix: Solid

Analysis Batch: 44690

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/25/23 07:14	1

Lab Sample ID: LCS 880-44632/2-A

Matrix: Solid

Analysis Batch: 44690

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	264.9		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-44632/3-A

Matrix: Solid

Analysis Batch: 44690

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	265.3		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-24038-1 MS

Matrix: Solid

Analysis Batch: 44690

Client Sample ID: BH

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<5.02	U F1	251	330.2	F1	mg/Kg		130	90 - 110

Lab Sample ID: 880-24038-1 MSD

Matrix: Solid

Analysis Batch: 44690

Client Sample ID: BH

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.02	U F1	251	328.2	F1	mg/Kg		129	90 - 110	1	20

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

GC VOA

Prep Batch: 44550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-44550/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 44613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24038-1	BH	Total/NA	Solid	8021B	44619
880-24038-2	SW-N	Total/NA	Solid	8021B	44619
880-24038-3	SW-S	Total/NA	Solid	8021B	44619
880-24038-4	SW-E	Total/NA	Solid	8021B	44619
880-24038-5	SW-W	Total/NA	Solid	8021B	44619
MB 880-44550/5-A	Method Blank	Total/NA	Solid	8021B	44550
MB 880-44619/5-A	Method Blank	Total/NA	Solid	8021B	44619
LCS 880-44619/1-A	Lab Control Sample	Total/NA	Solid	8021B	44619
LCSD 880-44619/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44619
880-24039-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	44619
880-24039-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	44619

Prep Batch: 44619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24038-1	BH	Total/NA	Solid	5035	
880-24038-2	SW-N	Total/NA	Solid	5035	
880-24038-3	SW-S	Total/NA	Solid	5035	
880-24038-4	SW-E	Total/NA	Solid	5035	
880-24038-5	SW-W	Total/NA	Solid	5035	
MB 880-44619/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44619/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44619/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24039-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-24039-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 44741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24038-1	BH	Total/NA	Solid	Total BTEX	
880-24038-2	SW-N	Total/NA	Solid	Total BTEX	
880-24038-3	SW-S	Total/NA	Solid	Total BTEX	
880-24038-4	SW-E	Total/NA	Solid	Total BTEX	
880-24038-5	SW-W	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 44696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24038-1	BH	Total/NA	Solid	8015NM Prep	
880-24038-2	SW-N	Total/NA	Solid	8015NM Prep	
880-24038-3	SW-S	Total/NA	Solid	8015NM Prep	
880-24038-4	SW-E	Total/NA	Solid	8015NM Prep	
880-24038-5	SW-W	Total/NA	Solid	8015NM Prep	
MB 880-44696/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44696/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44696/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24038-1 MS	BH	Total/NA	Solid	8015NM Prep	
880-24038-1 MSD	BH	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

GC Semi VOA

Analysis Batch: 44706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24038-1	BH	Total/NA	Solid	8015B NM	44696
880-24038-2	SW-N	Total/NA	Solid	8015B NM	44696
880-24038-3	SW-S	Total/NA	Solid	8015B NM	44696
880-24038-4	SW-E	Total/NA	Solid	8015B NM	44696
880-24038-5	SW-W	Total/NA	Solid	8015B NM	44696
MB 880-44696/1-A	Method Blank	Total/NA	Solid	8015B NM	44696
LCS 880-44696/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44696
LCSD 880-44696/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44696
880-24038-1 MS	BH	Total/NA	Solid	8015B NM	44696
880-24038-1 MSD	BH	Total/NA	Solid	8015B NM	44696

Analysis Batch: 44832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24038-1	BH	Total/NA	Solid	8015 NM	
880-24038-2	SW-N	Total/NA	Solid	8015 NM	
880-24038-3	SW-S	Total/NA	Solid	8015 NM	
880-24038-4	SW-E	Total/NA	Solid	8015 NM	
880-24038-5	SW-W	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24038-1	BH	Soluble	Solid	DI Leach	
880-24038-2	SW-N	Soluble	Solid	DI Leach	
880-24038-3	SW-S	Soluble	Solid	DI Leach	
880-24038-4	SW-E	Soluble	Solid	DI Leach	
880-24038-5	SW-W	Soluble	Solid	DI Leach	
MB 880-44632/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44632/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44632/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24038-1 MS	BH	Soluble	Solid	DI Leach	
880-24038-1 MSD	BH	Soluble	Solid	DI Leach	

Analysis Batch: 44690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24038-1	BH	Soluble	Solid	300.0	44632
880-24038-2	SW-N	Soluble	Solid	300.0	44632
880-24038-3	SW-S	Soluble	Solid	300.0	44632
880-24038-4	SW-E	Soluble	Solid	300.0	44632
880-24038-5	SW-W	Soluble	Solid	300.0	44632
MB 880-44632/1-A	Method Blank	Soluble	Solid	300.0	44632
LCS 880-44632/2-A	Lab Control Sample	Soluble	Solid	300.0	44632
LCSD 880-44632/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44632
880-24038-1 MS	BH	Soluble	Solid	300.0	44632
880-24038-1 MSD	BH	Soluble	Solid	300.0	44632

Eurofins Midland

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

Client Sample ID: BH

Lab Sample ID: 880-24038-1

Date Collected: 01/23/23 11:00

Matrix: Solid

Date Received: 01/24/23 11:14

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	44619	01/24/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44613	01/24/23 23:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44741	01/25/23 15:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			44832	01/26/23 14:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	44696	01/25/23 08:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44706	01/25/23 13:17	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44632	01/24/23 12:57	KS	EET MID
Soluble	Analysis	300.0		1			44690	01/25/23 07:32	CH	EET MID

Client Sample ID: SW-N

Lab Sample ID: 880-24038-2

Date Collected: 01/23/23 11:15

Matrix: Solid

Date Received: 01/24/23 11:14

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	44619	01/24/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44613	01/24/23 23:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44741	01/25/23 15:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			44832	01/26/23 14:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44696	01/25/23 08:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44706	01/25/23 14:25	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44632	01/24/23 12:57	KS	EET MID
Soluble	Analysis	300.0		1			44690	01/25/23 07:51	CH	EET MID

Client Sample ID: SW-S

Lab Sample ID: 880-24038-3

Date Collected: 01/23/23 11:32

Matrix: Solid

Date Received: 01/24/23 11:14

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	44619	01/24/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44613	01/25/23 00:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44741	01/25/23 15:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			44832	01/26/23 14:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44696	01/25/23 08:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44706	01/25/23 14:48	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44632	01/24/23 12:57	KS	EET MID
Soluble	Analysis	300.0		1			44690	01/25/23 07:57	CH	EET MID

Client Sample ID: SW-E

Lab Sample ID: 880-24038-4

Date Collected: 01/23/23 11:45

Matrix: Solid

Date Received: 01/24/23 11:14

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	44619	01/24/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44613	01/25/23 00:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44741	01/25/23 15:14	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

Client Sample ID: SW-E
Date Collected: 01/23/23 11:45
Date Received: 01/24/23 11:14

Lab Sample ID: 880-24038-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			44832	01/26/23 14:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44696	01/25/23 08:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44706	01/25/23 15:10	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	44632	01/24/23 12:57	KS	EET MID
Soluble	Analysis	300.0		1			44690	01/25/23 08:03	CH	EET MID

Client Sample ID: SW-W
Date Collected: 01/23/23 12:00
Date Received: 01/24/23 11:14

Lab Sample ID: 880-24038-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	44619	01/24/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44613	01/25/23 00:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44741	01/25/23 15:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			44832	01/26/23 14:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44696	01/25/23 08:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44706	01/25/23 15:33	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44632	01/24/23 12:57	KS	EET MID
Soluble	Analysis	300.0		1			44690	01/25/23 09:05	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

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

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

Method Summary

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

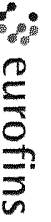
Sample Summary

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-24038-1	BH	Solid	01/23/23 11:00	01/24/23 11:14	4'
880-24038-2	SW-N	Solid	01/23/23 11:15	01/24/23 11:14	4'
880-24038-3	SW-S	Solid	01/23/23 11:32	01/24/23 11:14	4'
880-24038-4	SW-E	Solid	01/23/23 11:45	01/24/23 11:14	4'
880-24038-5	SW-W	Solid	01/23/23 12:00	01/24/23 11:14	4'

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



Enviro meta Testing
Xenco

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No:

241036

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Project Manager	Grant Huckabay	Bill to: (if different)	
Company Name	Fasken Oil and Ranch	Company Name	
Address	6101 Holiday Hill Road	Address	
City, State ZIP	Midland TX 79707	City, State ZIP	
Phone	432-288-5529	Email	granth@forl.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	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 <input type="checkbox"/>

Project Name	Shell Fed #2	Turn Around		ANALYSIS REQUEST	Preservative Codes
Project Number		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			
Project Location		Due Date	1-25-23		
Sampler's Name		TAT starts the day received by the lab if received by 4:30pm			
PO #					
SAMPLE RECEIPT		Temp Blank	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Samples Received Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID			
Cooler Custody Seals	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Correction Factor			
Sample Custody Seals	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Reading			
Total Containers		Corrected Temperature			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH 8015M (GRO/DRO/MRO)	BTEX 8021B	CHLORIDE 300 0	Sample Comments
BH	S	1-23-23	11:00am	4'	Comp	1				
SW-N			11:15am							
SW-S			11:30am							
SW-E			11:45am							
SW-W			12:00pm							



880-24038 Chain of Custody

Total	200 7 / 6010	200 8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 2451 / 7470 / 7471		

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

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

Login Sample Receipt Checklist

Client: Fasken Oil and Ranch

Job Number: 880-24038-1

Login Number: 24038

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

May 16, 2023

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: SHELL FEDERAL #2 DISPOSAL LINE

Enclosed are the results of analyses for samples received by the laboratory on 05/15/23 8:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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".

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:	05/15/2023	Sampling Date:	05/12/2023
Reported:	05/16/2023	Sampling Type:	Soil
Project Name:	SHELL FEDERAL #2 DISPOSAL LINE	Sampling Condition:	Cool & Intact
Project Number:	1155	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN - EDDY COUNTY, NM		

Sample ID: CS - 1 (4') (H232410-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEx	<0.300	0.300	05/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/15/2023	ND	432	108	400	0.00	

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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 2 (4') (H232410-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87		
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31		
Total BTEx	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/15/2023	ND	432	108	400	0.00		

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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 3 (4') (H232410-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87		
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31		
Total BTEx	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	05/15/2023	ND	432	108	400	0.00		

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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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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: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 4 (4') (H232410-04)

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	05/15/2023	ND	2.13	107	2.00	7.87		
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31		
Total BTEx	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/15/2023	ND	432	108	400	0.00		

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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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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: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 5 (4') (H232410-05)

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	05/15/2023	ND	2.13	107	2.00	7.87		
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31		
Total BTEx	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/15/2023	ND	432	108	400	0.00		

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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 6 (3') (H232410-06)

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	05/15/2023	ND	2.13	107	2.00	7.87		
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31		
Total BTX	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/15/2023	ND	432	108	400	0.00		

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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 7 (3') (H232410-07)

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	05/15/2023	ND	2.13	107	2.00	7.87		
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31		
Total BTX	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/15/2023	ND	432	108	400	0.00		

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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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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: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 8 (3') (H232410-08)

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	05/15/2023	ND	2.13	107	2.00	7.87		
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31		
Total BTX	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/15/2023	ND	432	108	400	0.00		

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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 9 (3') (H232410-09)

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	05/15/2023	ND	2.13	107	2.00	7.87		
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31		
Total BTX	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/15/2023	ND	432	108	400	0.00		

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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 10 (1.5') (H232410-10)

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	05/15/2023	ND	2.13	107	2.00	7.87		
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31		
Total BTX	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/15/2023	ND	432	108	400	0.00		

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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 11 (1.5') (H232410-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87		
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31		
Total BTEx	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/15/2023	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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 1 (4') (H232410-12)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/15/2023	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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 2 (4') (H232410-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87		
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31		
Total BTEx	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/15/2023	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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 3 (4') (H232410-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87		
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31		
Total BTEx	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/15/2023	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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 4 (4') (H232410-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87		
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31		
Total BTEx	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/15/2023	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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 5 (4') (H232410-16)

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	05/15/2023	ND	2.13	107	2.00	7.87		
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31		
Total BTX	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/15/2023	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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 6 (1') (H232410-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87		
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31		
Total BTEx	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	05/15/2023	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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 7 (3') (H232410-18)

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	05/15/2023	ND	2.13	107	2.00	7.87		
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31		
Total BTX	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/15/2023	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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 8 (4') (H232410-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEx	<0.300	0.300	05/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/15/2023	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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 9 (4') (H232410-20)

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	05/15/2023	ND	2.13	107	2.00	7.87		
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31		
Total BTX	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/15/2023	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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 10 (2.5') (H232410-21)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2023	ND	1.92	95.9	2.00	8.71		
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63		
Total BTEX	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/15/2023	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	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	11.1	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 11 (1') (H232410-22)

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	05/15/2023	ND	1.92	95.9	2.00	8.71		
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63		
Total BTEx	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/15/2023	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	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 12 (3') (H232410-23)

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	05/15/2023	ND	1.92	95.9	2.00	8.71		
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63		
Total BTX	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/15/2023	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	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	10.8	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 13 (1.5') (H232410-24)

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	05/15/2023	ND	1.92	95.9	2.00	8.71		
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63		
Total BTX	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/15/2023	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	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 14 (1.5') (H232410-25)

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	05/15/2023	ND	1.92	95.9	2.00	8.71	
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63	
Total BTEX	<0.300	0.300	05/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/15/2023	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	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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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: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 15 (3') (H232410-26)

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	05/15/2023	ND	1.92	95.9	2.00	8.71		
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63		
Total BTEx	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/15/2023	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	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	11.5	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 16 (1.5') (H232410-27)

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	05/15/2023	ND	1.92	95.9	2.00	8.71		
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63		
Total BTX	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/15/2023	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	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 17 (1.5') (H232410-28)

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	05/15/2023	ND	1.92	95.9	2.00	8.71		
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63		
Total BTEX	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/15/2023	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	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	11.0	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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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: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 18 (1.5') (H232410-29)

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	05/15/2023	ND	1.92	95.9	2.00	8.71		
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63		
Total BTX	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/15/2023	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	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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

Received: 05/15/2023
 Reported: 05/16/2023
 Project Name: SHELL FEDERAL #2 DISPOSAL LINE
 Project Number: 1155
 Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 19 (1.5') (H232410-30)

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	05/15/2023	ND	1.92	95.9	2.00	8.71		
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63		
Total BTX	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/15/2023	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	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	10.6	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

Chain of Custody

Work Order No: H232416

Page 1 of 3

Project Manager:	Conner Moehring	Bill to: (if different)	Grant Huckabay/Addison Guetker
Company Name:	Carmona Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-6823	Email:	GrantH@forl.com; addison@forl.com

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

Project Name:	Shell Federal #2 Disposal line	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	1155																None: NO	DI Water: H ₂ O	
Project Location:	Eddy County, New Mexico	Due Date:	24 Hrs														Cool: Cool	MeOH: Me	
Sampler's Name:	CRM																HCL: HC	HNO ₃ : HN	
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H ₃ PO ₄ : HP		
Received Inact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:															NaHSO ₄ : NABIS		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:															Na ₂ S ₂ O ₃ : NaSO ₃		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:															Zn Acetate+NaOH: Zn		
Total Containers:		Corrected Temperature:															NaOH+Ascorbic Acid: SAPC		
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments
CS-1 (4)	5/12/2023		X			1	X	X	X										
CS-2 (4)	5/12/2023		X			1	X	X	X										
CS-3 (4)	5/12/2023		X			1	X	X	X										
CS-4 (4)	5/12/2023		X			1	X	X	X										
CS-5 (4)	5/12/2023		X			1	X	X	X										
CS-6 (3)	5/12/2023		X			1	X	X	X										
CS-7 (3)	5/12/2023		X			1	X	X	X										
CS-8 (3)	5/12/2023		X			1	X	X	X										
CS-9 (3)	5/12/2023		X			1	X	X	X										
CS-10 (1.5)	5/12/2023		X			1	X	X	X										

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com & Conner Moehring cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Conner Moehring</i>	5-15-23 0800	<i>Grant Huckabay</i>	

Chain of Custody

Work Order No: H232410

Page 2 of 3

Project Manager:	Conner Moehring	Bill to: (if different)	Grant Huckabee/Addison Guetler
Company Name:	Carmona Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-6823	Email:	GrantH@ford.com/addisong@ford.com

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

Project Name:	Shell Federal #2 Disposal line	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	1155	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush														None: NO	DI Water: H ₂ O	
Project Location:	Eddy County, New Mexico	Due Date:	24 Hrs													Cool: Cool	MeOH: Me	
Sampler's Name:	CRM															HCL: HC	HNO ₃ : HN	
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Well Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H ₃ PO ₄ : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:															NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:															Na ₂ S ₂ O ₅ : NaSO ₃	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:															Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature:															NaOH+Ascorbic Acid: SAPC	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	TP	Sample Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
CS-11 (1.5')	5/12/2023		X			1	X	X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com & Conner Moehring cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	5-15-23 0820		

Chain of Custody

Page 3 of 3

Work Order No: 4233410


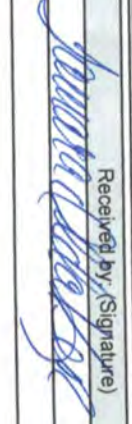
Project Manager:	Conner Moehring	Bill to: (if different)	Grant Huckabee/Addison Guetler
Company Name:	Carmona Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-6823	Email:	GrantH@forl.com/addisong@forl.com

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

Project Name:	Shell Federal #2 Disposal line	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number:	1155	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush														None: NO	DI Water: H ₂ O
Project Location:	Eddy County, New Mexico	Due Date:	24 Hrs													Cool: Cool	MeOH: Me
Sampler's Name:	CRM															HCL: HC	HNO ₃ : HN
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												H ₃ PO ₄ : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:														NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Correction Factor:														Na ₂ S ₂ O ₅ : NaSO ₃	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Temperature Reading:														Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature:														NaOH+Ascorbic Acid: SAPC	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	TPH												Sample Comments
SW-10 (2.5')	5/12/2023		X			1	X	X	X										
SW-11 (1')	5/12/2023		X			1	X	X	X										
SW-12 (3')	5/12/2023		X			1	X	X	X										
SW-13 (1.5')	5/12/2023		X			1	X	X	X										
SW-14 (1.5')	5/12/2023		X			1	X	X	X										
SW-15 (3')	5/12/2023		X			1	X	X	X										
SW-16 (1.5')	5/12/2023		X			1	X	X	X										
SW-17 (1.5')	5/12/2023		X			1	X	X	X										
SW-18 (1.5')	5/12/2023		X			1	X	X	X										
SW-19 (1.5')	5/12/2023		X			1	X	X	X										

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com & Conner Moehring cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	5-15-23 0826		

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 223935

CONDITIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 223935
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2228544134 SHELL FEDERAL 2 SWD DISPOSAL LINE, thank you. This closure is approved.	10/31/2023