

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2231843027
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: 5/10/23

email: addisong@forl.com

Telephone: 432-687-1777

OCD Only

Received by: Jocelyn Harimon

Date: 05/12/2023

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

Closure Approved by: 

Date: 10/6/2023

Printed Name: Robert Hamlet

Title: Environmental Specialist - Advanced

CARMONA RESOURCES



SITE INFORMATION

Closure Report
Shell Federal No. 2 SWD
Incident # nAPP2231843027
Eddy County, New Mexico
Unit M Sec 05 T21E R24E
32.510319°, -104.527606°

Produced Water Release
Cause of Release: Wellhead Connection
Release Date: 11/08/2022
Volume Released: 10 barrels of Produced Water
Volume Recovered: 2 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

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

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May 10, 2023

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

**Re: Closure Report
Shell Federal No. 2 SWD
Fasken Oil and Ranch, Ltd
Site Location: Unit M, S05, T21E, R24E
(Lat 32.510319°, Long -104.527606 °)
Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Fasken Oil and Ranch Ltd, Carmona Resources, LLC has prepared this letter to document the Shell Federal No. 2 SWD site activities. The site is located at 32.510319°, -104.527606 ° within Unit M, S05, T21E, R24E, 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 November 8, 2022, due to a wellhead connection that had internal corrosion. It released approximately ten (10) barrels of produced water, and approximately two (2) barrels of produced water were recovered. The impacted area occurred on the pad, shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water source is within a 0.50-mile radius of the location. The nearest identified well is approximately 1.01 miles North of the site in S31, T20S, R25E and was drilled in 1964. The well has a reported depth to groundwater of 312' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

Trenching Activities

On March 13, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of three (3) trenches (T-1 through T-3) and four (4) horizontal sample

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Midland, Texas 79701
432.813.1992



points (H-1 through H-4) were advanced to depths ranging from the surface to 4' bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. 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 Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. The sample locations are shown in Figure 3. Refer to Table 1.

Vertical and horizontal delineation was achieved for all sample points collected. Refer to Table 1.

5.0 Remediation Activities

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on May 2, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of seventeen (17) floor confirmation samples were collected (CS-1 through CS-17), and eleven (11) sidewall samples (SW-1 through SW-11) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

All final confirmation samples were below the regulatory requirements for TPH, BTEX, and chloride except for confirmation samples (CS-2, CS-7, and CS-11). Confirmation samples (CS-2 and CS-7) showed elevated TPH of 105 mg/kg to 122 mg/kg. The confirmation sample (CS-11) showed high chloride levels at 693 mg/kg. All areas of impacted materials were excavated to remove all impacted material, and samples were recollected and submitted to the lab.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 200 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

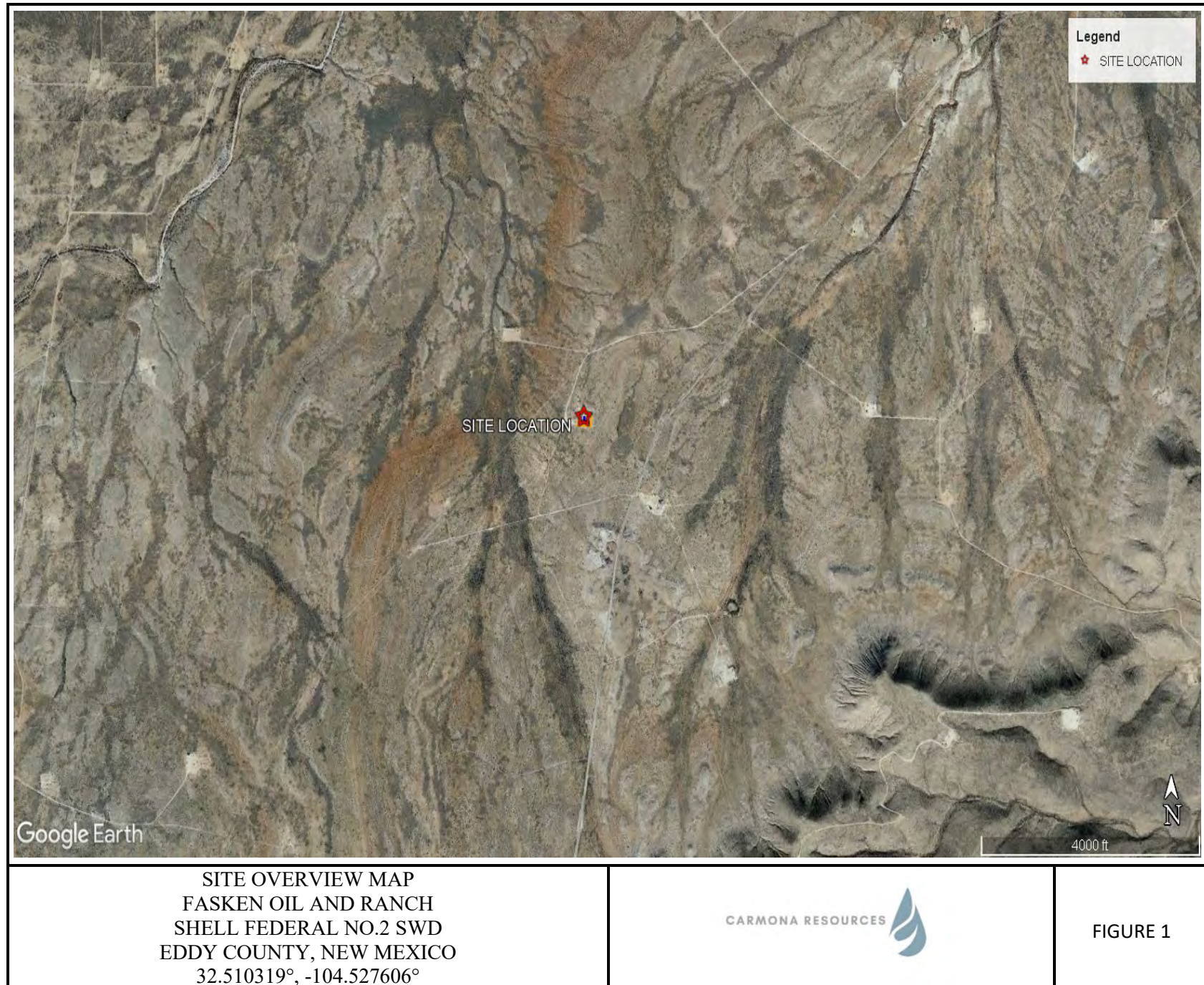
Mike Carmona
Environmental Manager

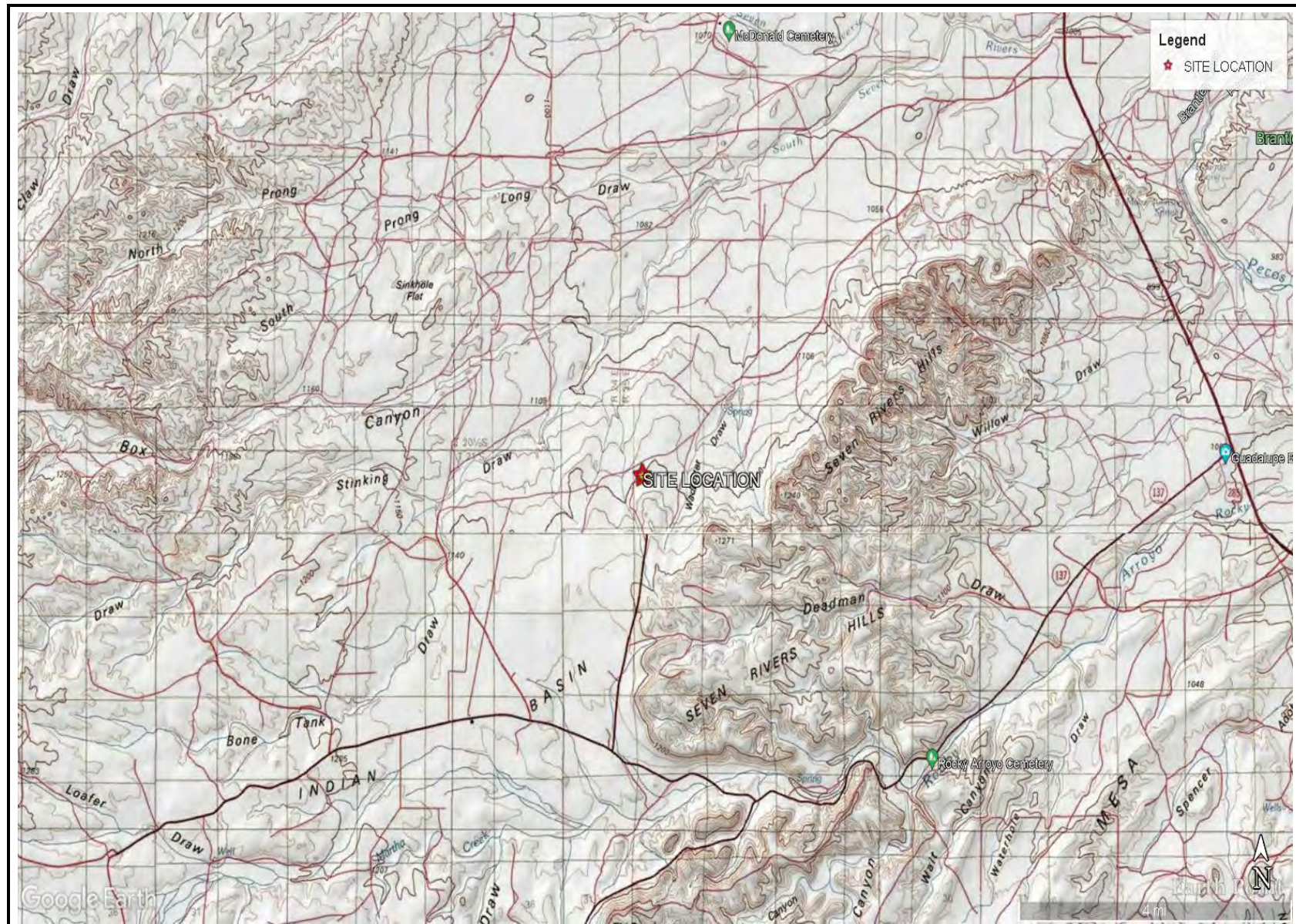
Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES



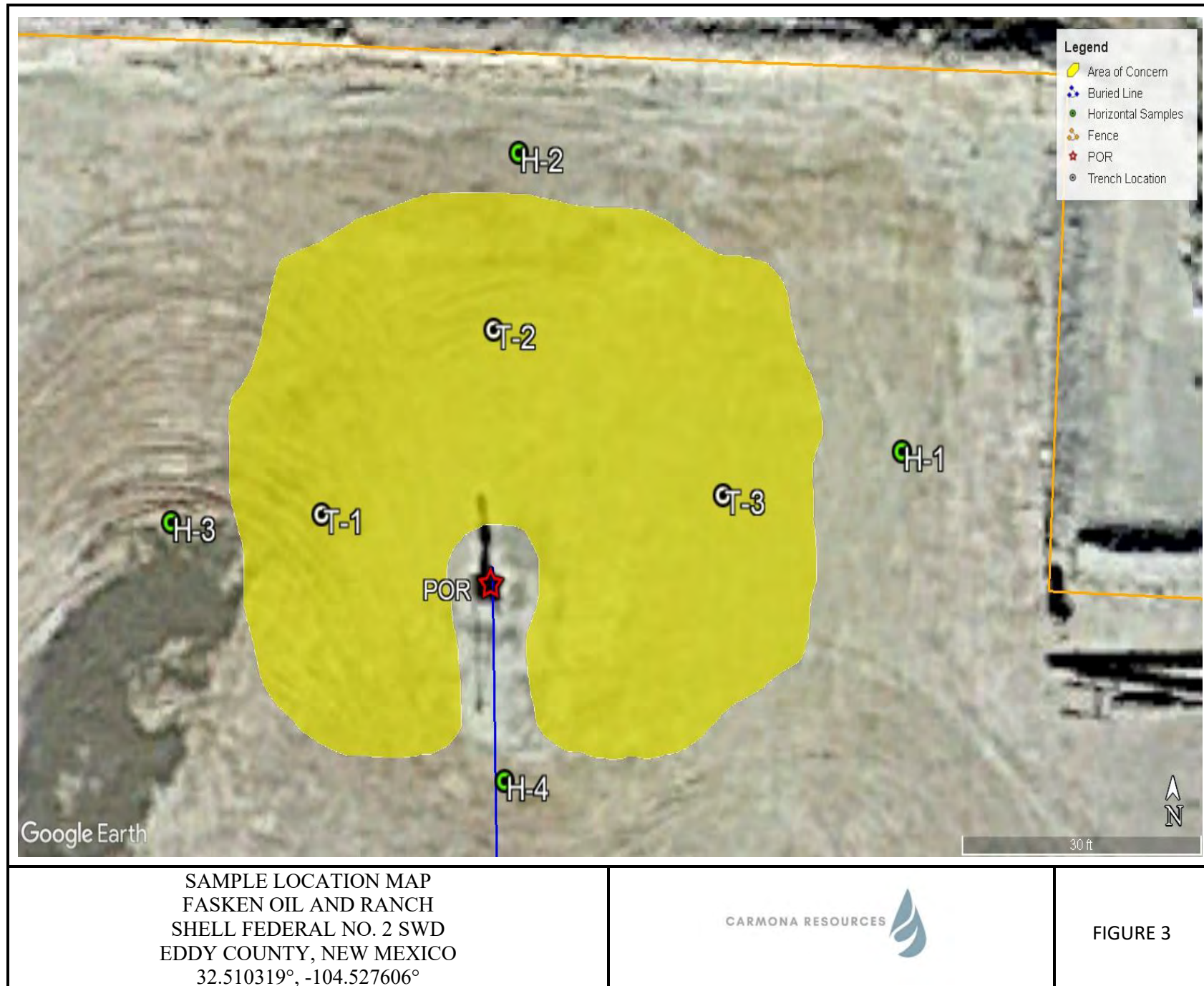


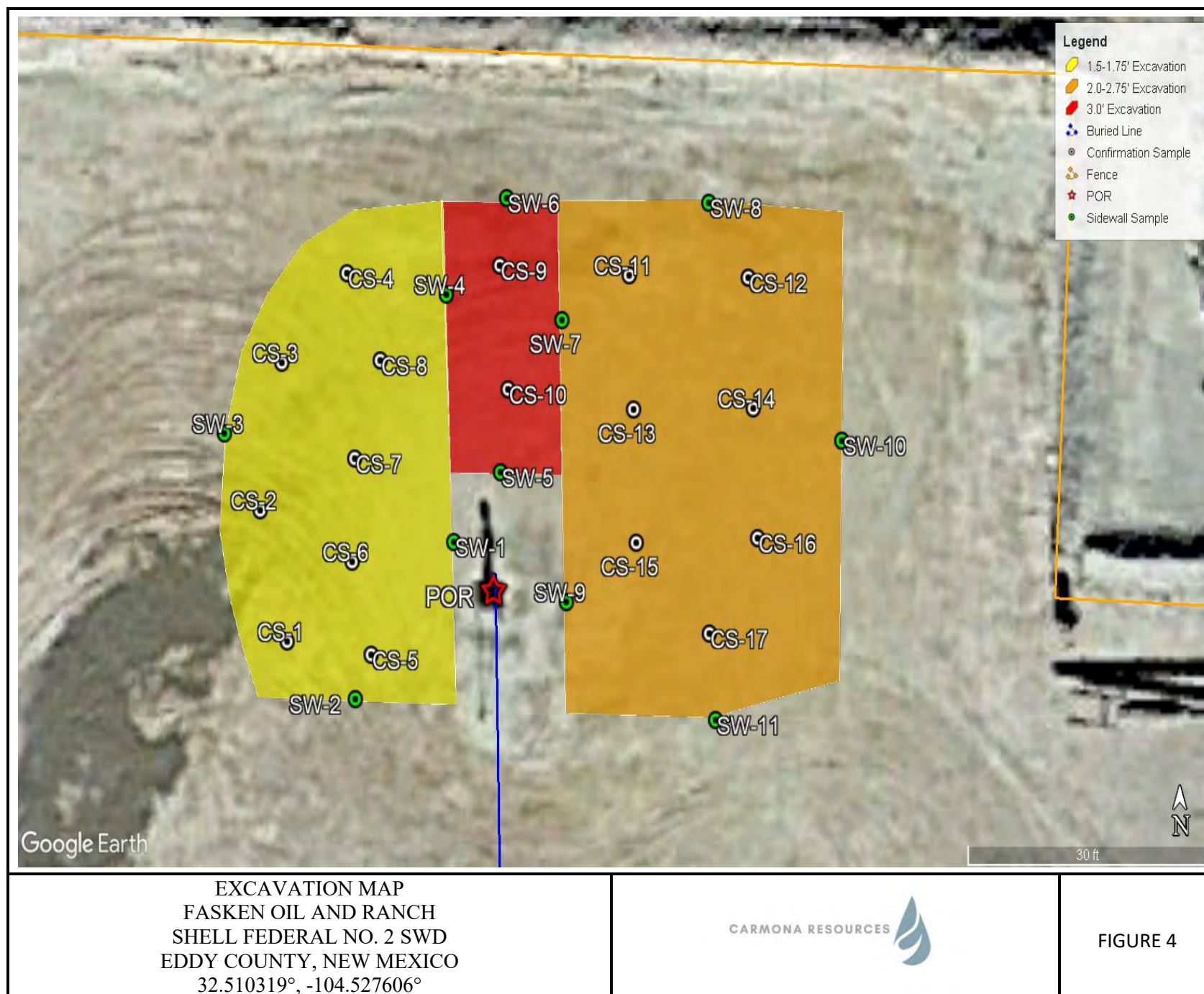


TOPOGRAPHIC MAP
FASKEN OIL AND RANCH
SHELL FEDERAL NO.2 SWD
EDDY COUNTY, NEW MEXICO
32.510319°, -104.527606°



FIGURE 2





APPENDIX A

CARMONA RESOURCES



Table 1
Fasken Oil and Ranch
Shell Federal No.2 SWD
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						
T-1	3/13/2023	0-1	<50.0	85.9	<50.0	85.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	668
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	183
	"	2	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	122
	"	3	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	127
	"	4	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	124
T-2	3/13/2023	0-1	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	98.5
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	637
	"	2	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	706
	"	3	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	125
	"	4	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	126
T-3	3/13/2023	0-1	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	384
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	825
	"	2	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	473
	"	3	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	37.3
	"	4	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	329
H-1	12/1/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	35.8
H-2	12/1/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	326
H-3	12/1/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	357
H-4	12/1/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	281
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

(T) Trenching

(H) Horizontal

Removed

Table 2
Fasken Oil and Ranch
Shell Federal No.2 SWD
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						
CS-1	5/3/2023	1.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	283
CS-2	5/3/2023	1.5	<50.0	105	<50.0	105	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	186
	5/5/2023	1.75	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	36.6
CS-3	5/3/2023	1.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	151
CS-4	5/3/2023	1.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	369
CS-5	5/3/2023	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	266
CS-6	5/3/2023	1.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	321
CS-7	5/3/2023	1.5	<49.9	122	<49.9	122	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	223
	5/5/2023	1.75	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	40.6
CS-8	5/3/2023	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	193
CS-9	5/3/2023	3.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	233
CS-10	5/3/2023	3.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	267
CS-11	5/3/2023	2	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	693
	5/5/2023	2.75	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	50.9
CS-12	5/3/2023	2	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	62.3
CS-13	5/3/2023	2	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	171
CS-14	5/3/2023	2	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	357
CS-15	5/3/2023	2	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	186
CS-16	5/3/2023	2	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	168
CS-17	5/3/2023	2	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	510
Regulatory Criteria ^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft-feet

(CS) Confirmation Floor Sample

 Removed

Table 2
Fasken Oil and Ranch
Shell Federal No.2 SWD
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						
SW-1	5/3/2023	1.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	406
SW-2	5/3/2023	1.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	152
SW-3	5/3/2023	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	178
SW-4	5/3/2023	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	313
SW-5	5/3/2023	3	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	122
SW-6	5/3/2023	3	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	62.4
SW-7	5/3/2023	1	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	513
SW-8	5/3/2023	2	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	503
SW-9	5/3/2023	2	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	119
SW-10	5/3/2023	2	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	309
SW-11	5/3/2023	2	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	310
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 No. 2 SWD

County: Eddy County, New Mexico

Description:

View Northeast, area of CS-1 through CS-8.

**Photograph No. 2**

Facility: Shell Federal No. 2 SWD

County: Eddy County, New Mexico

Description:

View South, area of CS-1 through CS-8.

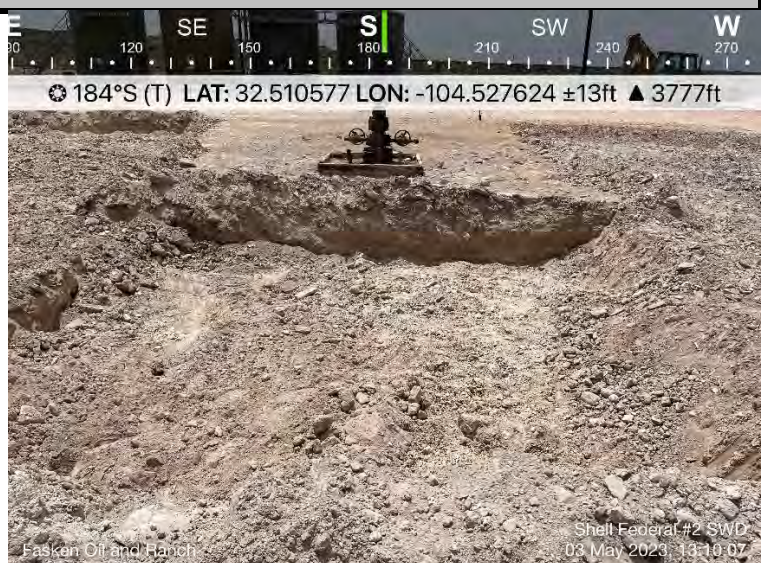
**Photograph No. 3**

Facility: Shell Federal No. 2 SWD

County: Eddy County, New Mexico

Description:

View South, area of CS-9 and CS-10.



PHOTOGRAPHIC LOG

Fasken Oil and Ranch

Photograph No. 4

Facility: Shell Federal No. 2 SWD

County: Eddy County, New Mexico

Description:

View East, area of CS-4, and CS-7 through CS-10.



Photograph No. 5

Facility: Shell Federal No. 2 SWD

County: Eddy County, New Mexico

Description:

View South, area of CS-11 through CS-17.



Photograph No. 6

Facility: Shell Federal No. 2 SWD

County: Eddy County, New Mexico

Description:

View Northwest, area of CS-11 through CS-17.



APPENDIX C

CARMONA RESOURCES



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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2231843027
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Fasken Oil and Ranch, Ltd.	OGRID 151416
Contact Name Addison Guelker	Contact Telephone 432-687-1777
Contact email addisong@forl.com	Incident # (assigned by OCD) nAPP2231843027
Contact mailing address 6101 Holiday Hill Road, Midland TX 79707	

Location of Release Source

Latitude 32.510319

Longitude -104.527606

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Shell Federal No. 2 SWD	Site Type Salt Water Disposal
Date Release Discovered 11/08/22	API# (if applicable) 30-015-22717

Unit Letter	Section	Township	Range	County
M	5	21E	24E	Eddy

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 10	Volume Recovered (bbls) 2
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Wellhead connection had internal corrosion.

Incident ID	nAPP2231843027
District RP	
Facility ID	
Application ID	

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

Initial Response

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

☒ The source of the release has been stopped.	
☒ The impacted area has been secured to protect human health and the environment.	
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Addison Guelker</u>	Title: <u>Environmental Tech</u>
Signature: <u></u>	Date: <u>11/14/22</u>
email: <u>addisong@forl.com</u>	Telephone: <u>432-687-1777</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAPP2231843027
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: 5/10/23

email: addisong@forl.com

Telephone: 432-687-1777

OCD Only

Received by: Jocelyn Harimon

Date: 05/12/2023

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2231843027
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: 5/10/23

email: addisong@forl.com

Telephone: 432-687-1777

OCD Only

Received by: Jocelyn Harimon

Date: 05/12/2023

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

From: Enviro, OCD, EMNRD
Sent: Tuesday, May 2, 2023 9:49 AM
To: Mike Carmona
Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] Fasken - Shell Federal No.2 SWD - Sampling Notification - Incident ID: nAPP2231843027

Mike,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Mike Carmona <Mcarmona@carmonaresources.com>
Sent: Monday, May 1, 2023 7:47 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Addison Guelker <addisong@forl.com>; Grant Huckabay <granth@forl.com>; Conner Moehring <Cmoehring@carmonaresources.com>
Subject: [EXTERNAL] Fasken - Shell Federal No.2 SWD - Sampling Notification - Incident ID: nAPP2231843027

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

Good Morning,

This email serves as a 48-hour notification for confirmation sampling on the Fasken Shell Federal No.2 SWD. Sampling is scheduled to begin as early as 2:00 p.m. (MST) Wednesday, May 3rd, weather and soil conditions permitting. Carmona Resources will be on-site to collect the confirmation samples.

Incident ID: nAPP2231843027

Coordinates: 32.510319, -104.527606

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

CARMONA RESOURCES



APPENDIX D

CARMONA RESOURCES



Nearest water well

Fasken Oil and Ranch

Legend

- 0.50 Mile Radius
- 1.01 Miles
- 1.72 Miles
- 1.83 Miles
- 2.70 Miles
- 3.00 Miles
- NMSEO Water Well
- Shell Federal No. 2 SWD
- USGS Water Well



High Karst

Fasken Oil and Ranch

Legend



High



Shell Federal No. 2 SWD



Shell Federal No. 2 SWD





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 05057	RA	ED		3	3	31	20S	25E		544071	3598678*	1605	380	312	68
C 03245	C	ED		3	1	4	32	20S	25E	546395	3598990*	2768	253	100	153

Average Depth to Water: **206 feet**

Minimum Depth: **100 feet**

Maximum Depth: **312 feet**

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 544371.45

Northing (Y): 3597101.3

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.

12/12/22 3:22 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 05057		3	3	31	20S	25E	544071	3598678*
Driller License: 359									
Driller Company: BRADY, W.H. DRILLING CO.									
Driller Name: BRADY, W.H.									
Drill Start Date: 11/27/1964									
Drill Finish Date: 12/07/1964									
Plug Date:									
Log File Date: 01/04/1965									
PCW Rev Date:									
Source: Shallow									
Pump Type:									
Pipe Discharge Size:									
Estimated Yield:									
Casing Size: 6.63									
Depth Well: 380 feet									
Depth Water: 312 feet									

*UTM location was derived from PLSS - see Help

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

12/12/22 3:22 PM

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
	C	03245	3	1	4	32	20S	25E	546395	3598990* 
x										
Driller License:		1227		Driller Company:			B & H DRILLING			
Driller Name:		HAMMOND, JOHN B.								
Drill Start Date:		12/01/2005		Drill Finish Date:			01/10/2006		Plug Date:	
Log File Date:		01/18/2006		PCW Rcv Date:					Source: Shallow	
Pump Type:					Pipe Discharge Size:			Estimated Yield:		25 GPM
Casing Size:		6.00		Depth Well:			253 feet		Depth Water: 100 feet	
x										
Water Bearing Stratifications:				Top	Bottom	Description				
				150	160	Sandstone/Gravel/Conglomerate				
				176	180	Shale/Mudstone/Siltstone				
x										
Casing Perforations:				Top	Bottom					
				150	190					

*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.

12/12/22 3:24 PM

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	? Status
				Groundwater	New Mexico	GO	

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Groundwater levels for New Mexico

Click to hide state-specific text

! Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 323137104301201

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 323137104301201 20S.25E.32.413144

Eddy County, New Mexico

Latitude 32°31'37", Longitude 104°30'12" NAD27

Land-surface elevation 3,630 feet above NAVD88

The depth of the well is 720 feet below land surface.

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Grayburg Formation of Artesia Group (313GRBG) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1963-01-16		D	62610		3498.10	NGVD29	1		Z	
1963-01-16		D	62611		3499.73	NAVD88	1		Z	
1963-01-16		D	72019	130.27			1		Z	
1963-07-24		D	62610		3487.14	NGVD29	P		Z	
1963-07-24		D	62611		3488.77	NAVD88	P		Z	
1963-07-24		D	72019	141.23			P		Z	
1963-08-13		D	62610		3502.52	NGVD29	1		Z	
1963-08-13		D	62611		3504.15	NAVD88	1		Z	
1963-08-13		D	72019	125.85			1		Z	
1963-09-04		D	62610		3504.27	NGVD29	1		Z	
1963-09-04		D	62611		3505.90	NAVD88	1		Z	
1963-09-04		D	72019	124.10			1		Z	
1963-10-02		D	62610		3504.15	NGVD29	1		Z	
1963-10-02		D	62611		3505.78	NAVD88	1		Z	
1963-10-02		D	72019	124.22			1		Z	
1963-11-20		D	62610		3502.04	NGVD29	P		Z	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S
1963-11-20	D	62611	3503.67	NAVD88	P	Z	
1963-11-20	D	72019	126.33		P	Z	
1964-01-06	D	62610	3499.36	NGVD29	P	Z	
1964-01-06	D	62611	3500.99	NAVD88	P	Z	
1964-01-06	D	72019	129.01		P	Z	
1965-01-13	D	62610	3489.10	NGVD29	P	Z	
1965-01-13	D	62611	3490.73	NAVD88	P	Z	
1965-01-13	D	72019	139.27		P	Z	
1989-02-02	D	62610	3527.42	NGVD29	1	Z	
1989-02-02	D	62611	3529.05	NAVD88	1	Z	
1989-02-02	D	72019	100.95		1	Z	
1990-03-07	D	62610	3520.96	NGVD29	1	Z	
1990-03-07	D	62611	3522.59	NAVD88	1	Z	
1990-03-07	D	72019	107.41		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?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=323137104301201&agency_cd=USGS&format=html)Page Contact Information: [New Mexico Water Data Maintainer](#)

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0.34 0.3 nadww01



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USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 322930104291201

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

USGS 322930104291201 21S.24E.10.144321

Eddy County, New Mexico
Latitude 32°29'30", Longitude 104°29'12" NAD27
Land-surface elevation 3,900.0 feet above NGVD29
The depth of the well is 220.0 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 of measurement
1987-10-07		D	62610		3746.52	NGVD29	P		S	
1987-10-07		D	62611		3748.21	NAVD88	P		S	
1987-10-07		D	72019	153.48			P		S	

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	P	Pumping
Method of measurement	S	Steel-tape measurement.

Section	Code	Description
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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URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



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0.37 0.34 nadww01



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USGS Water Resources

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Groundwater

Geographic Area:
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Agency code = usgs
site_no list =

- 323004104344001

Minimum number of levels = 1
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USGS 323004104344001 21S.23E.02.33434

Eddy County, New Mexico
Latitude 32°30'04", Longitude 104°34'40" NAD27
Land-surface elevation 3,710.0 feet above NGVD29
This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1987-10-06			D	62610	3563.52	NGVD29	1	S		
1987-10-06			D	62611	3565.17	NAVD88	1	S		
1987-10-06			D	72019	146.48		1	S		

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.
Measuring agency		Not determined

Section	Code	Description
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

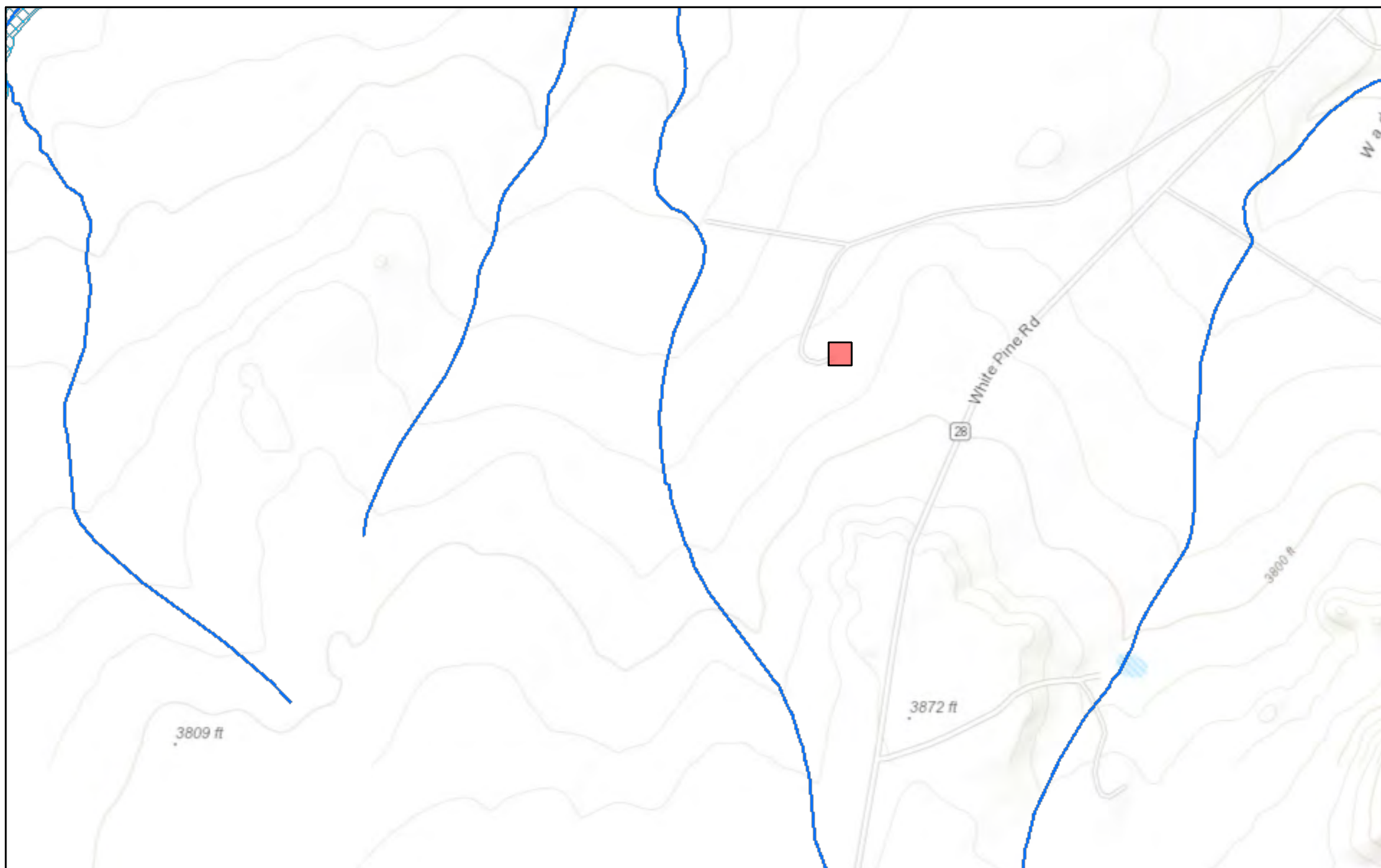
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Title: Groundwater for New Mexico: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>

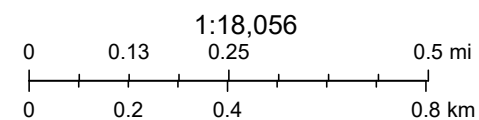


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0.29 0.25 nadww02

New Mexico NFHL Data



December 12, 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

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- 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Generated 3/24/2023 4:42:48 PM

JOB DESCRIPTION

Shell Federal #2 SWD
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-25892-1

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
3/24/2023 4:42:48 PM

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

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Laboratory Job ID: 880-25892-1
SDG: Eddy County, New Mexico

Table of Contents

Cover Page	1
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Surrogate Summary	10
QC Sample Results	11
QC Association Summary	16
Lab Chronicle	19
Certification Summary	21
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Sample Summary	23
Chain of Custody	24
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Definitions/Glossary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
SDG: Eddy County, New Mexico

Job ID: 880-25892-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-25892-1
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Receipt

The samples were received on 3/14/2023 1:38 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: T-1 (0-1') (880-25892-1), T-1 (1.5') (880-25892-2), T-1 (2') (880-25892-3), T-1 (3') (880-25892-4) and T-1 (4') (880-25892-5).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-49225 and analytical batch 880-49294 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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.

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (0-1')

Lab Sample ID: 880-25892-1

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		03/22/23 15:43	03/23/23 23:43	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		03/22/23 15:43	03/23/23 23:43	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		03/22/23 15:43	03/23/23 23:43	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		03/22/23 15:43	03/23/23 23:43	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		03/22/23 15:43	03/23/23 23:43	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		03/22/23 15:43	03/23/23 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/22/23 15:43	03/23/23 23:43	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/22/23 15:43	03/23/23 23:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/24/23 10:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	85.9		50.0		mg/Kg			03/20/23 17:55	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		03/17/23 10:48	03/17/23 22:11	1
Diesel Range Organics (Over C10-C28)	85.9		50.0		mg/Kg		03/17/23 10:48	03/17/23 22:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/17/23 10:48	03/17/23 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	03/17/23 10:48	03/17/23 22:11	1
o-Terphenyl	108		70 - 130	03/17/23 10:48	03/17/23 22:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	668		4.99		mg/Kg			03/24/23 16:32	1

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-25892-2

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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		03/22/23 15:43	03/24/23 00:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:43	03/24/23 00:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:43	03/24/23 00:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 15:43	03/24/23 00:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:43	03/24/23 00:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 15:43	03/24/23 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	03/22/23 15:43	03/24/23 00:03	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/22/23 15:43	03/24/23 00:03	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-25892-2

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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			03/24/23 10:15	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			03/20/23 17:55	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		03/17/23 10:48	03/17/23 22:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/17/23 10:48	03/17/23 22:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/17/23 10:48	03/17/23 22:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				03/17/23 10:48	03/17/23 22:32	1
o-Terphenyl	105		70 - 130				03/17/23 10:48	03/17/23 22:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	183		5.02		mg/Kg			03/24/23 16:37	1

Client Sample ID: T-1 (2')

Lab Sample ID: 880-25892-3

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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		03/22/23 15:43	03/24/23 00:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:43	03/24/23 00:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:43	03/24/23 00:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/22/23 15:43	03/24/23 00:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:43	03/24/23 00:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/22/23 15:43	03/24/23 00:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				03/22/23 15:43	03/24/23 00:24	1
1,4-Difluorobenzene (Surr)	103		70 - 130				03/22/23 15:43	03/24/23 00:24	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			03/24/23 10:15	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			03/20/23 17:55	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		03/17/23 10:48	03/17/23 22:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/17/23 10:48	03/17/23 22:54	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (2')

Lab Sample ID: 880-25892-3

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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		03/17/23 10:48	03/17/23 22:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				03/17/23 10:48	03/17/23 22:54	1
o-Terphenyl	101		70 - 130				03/17/23 10:48	03/17/23 22:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		4.97		mg/Kg			03/24/23 16:42	1

Client Sample ID: T-1 (3')

Lab Sample ID: 880-25892-4

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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		03/22/23 15:43	03/24/23 00:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/22/23 15:43	03/24/23 00:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/22/23 15:43	03/24/23 00:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/22/23 15:43	03/24/23 00:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/22/23 15:43	03/24/23 00:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/22/23 15:43	03/24/23 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				03/22/23 15:43	03/24/23 00:45	1
1,4-Difluorobenzene (Surr)	108		70 - 130				03/22/23 15:43	03/24/23 00:45	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			03/24/23 10:15	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			03/20/23 17:55	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		03/17/23 10:48	03/17/23 23:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/17/23 10:48	03/17/23 23:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/17/23 10:48	03/17/23 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				03/17/23 10:48	03/17/23 23:16	1
o-Terphenyl	94		70 - 130				03/17/23 10:48	03/17/23 23:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		5.02		mg/Kg			03/22/23 06:06	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (4')

Lab Sample ID: 880-25892-5

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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		03/22/23 15:43	03/24/23 01:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:43	03/24/23 01:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:43	03/24/23 01:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/22/23 15:43	03/24/23 01:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:43	03/24/23 01:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/22/23 15:43	03/24/23 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	03/22/23 15:43	03/24/23 01:05	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/22/23 15:43	03/24/23 01:05	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			03/24/23 10:15	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			03/20/23 17:55	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		03/17/23 10:48	03/17/23 23:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/17/23 10:48	03/17/23 23:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/17/23 10:48	03/17/23 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	03/17/23 10:48	03/17/23 23:38	1
o-Terphenyl	115		70 - 130	03/17/23 10:48	03/17/23 23:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		5.01		mg/Kg			03/22/23 06:11	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
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)
880-25892-1	T-1 (0-1')	101	85
880-25892-1 MS	T-1 (0-1')	111	91
880-25892-1 MSD	T-1 (0-1')	110	93
880-25892-2	T-1 (1.5')	109	106
880-25892-3	T-1 (2')	109	103
880-25892-4	T-1 (3')	117	108
880-25892-5	T-1 (4')	111	104
LCS 880-49225/1-A	Lab Control Sample	123	99
LCSD 880-49225/2-A	Lab Control Sample Dup	120	98
MB 880-49186/5-A	Method Blank	98	87
MB 880-49225/5-A	Method Blank	100	84
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)
880-25892-1	T-1 (0-1')	108	108
880-25892-2	T-1 (1.5')	96	105
880-25892-3	T-1 (2')	94	101
880-25892-4	T-1 (3')	89	94
880-25892-5	T-1 (4')	114	115
890-4296-A-17-B MS	Matrix Spike	125	106
890-4296-A-17-C MSD	Matrix Spike Duplicate	97	98
LCS 880-48829/2-A	Lab Control Sample	97	111
LCSD 880-48829/3-A	Lab Control Sample Dup	102	113
MB 880-48829/1-A	Method Blank	112	114
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49186/5-A

Matrix: Solid

Analysis Batch: 49294

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49186

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/22/23 10:59	03/23/23 12:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/22/23 10:59	03/23/23 12:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/22/23 10:59	03/23/23 12:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/22/23 10:59	03/23/23 12:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/22/23 10:59	03/23/23 12:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/22/23 10:59	03/23/23 12:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/22/23 10:59	03/23/23 12:15	1
1,4-Difluorobenzene (Surr)	87		70 - 130	03/22/23 10:59	03/23/23 12:15	1

Lab Sample ID: MB 880-49225/5-A

Matrix: Solid

Analysis Batch: 49294

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49225

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:43	03/23/23 23:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:43	03/23/23 23:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:43	03/23/23 23:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/23 15:43	03/23/23 23:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:43	03/23/23 23:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/23 15:43	03/23/23 23:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/22/23 15:43	03/23/23 23:21	1
1,4-Difluorobenzene (Surr)	84		70 - 130	03/22/23 15:43	03/23/23 23:21	1

Lab Sample ID: LCS 880-49225/1-A

Matrix: Solid

Analysis Batch: 49294

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08935		mg/Kg		89	70 - 130
Toluene	0.100	0.09851		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1032		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2215		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1136		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-49225/2-A

Matrix: Solid

Analysis Batch: 49294

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49225

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08753		mg/Kg		88	70 - 130	2	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-49225/2-A

Matrix: Solid

Analysis Batch: 49294

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49225

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09572		mg/Kg		96	70 - 130	3	35
Ethylbenzene	0.100	0.09470		mg/Kg		95	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2003		mg/Kg		100	70 - 130	10	35
o-Xylene	0.100	0.1037		mg/Kg		104	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-25892-1 MS

Matrix: Solid

Analysis Batch: 49294

Client Sample ID: T-1 (0-1')

Prep Type: Total/NA

Prep Batch: 49225

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.0998	0.05696	F1	mg/Kg		57	70 - 130
Toluene	<0.00199	U F1	0.0998	0.06230	F1	mg/Kg		62	70 - 130
Ethylbenzene	<0.00199	U F1	0.0998	0.05839	F1	mg/Kg		59	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1211	F1	mg/Kg		61	70 - 130
o-Xylene	<0.00199	U F1	0.0998	0.06285	F1	mg/Kg		63	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-25892-1 MSD

Matrix: Solid

Analysis Batch: 49294

Client Sample ID: T-1 (0-1')

Prep Type: Total/NA

Prep Batch: 49225

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0990	0.06006	F1	mg/Kg		61	70 - 130	5	35
Toluene	<0.00199	U F1	0.0990	0.06303	F1	mg/Kg		64	70 - 130	1	35
Ethylbenzene	<0.00199	U F1	0.0990	0.05850	F1	mg/Kg		59	70 - 130	0	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.1205	F1	mg/Kg		61	70 - 130	0	35
o-Xylene	<0.00199	U F1	0.0990	0.06169	F1	mg/Kg		62	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

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

Lab Sample ID: MB 880-48829/1-A

Matrix: Solid

Analysis Batch: 48815

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48829

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		03/17/23 10:48	03/17/23 19:57	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-48829/1-A

Matrix: Solid

Analysis Batch: 48815

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/17/23 10:48	03/17/23 19:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/17/23 10:48	03/17/23 19:57	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				03/17/23 10:48	03/17/23 19:57	1
o-Terphenyl	114		70 - 130				03/17/23 10:48	03/17/23 19:57	1

Lab Sample ID: LCS 880-48829/2-A

Matrix: Solid

Analysis Batch: 48815

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	955.3		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	911.3		mg/Kg		91	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	97		70 - 130				
o-Terphenyl	111		70 - 130				

Lab Sample ID: LCSD 880-48829/3-A

Matrix: Solid

Analysis Batch: 48815

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48829

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	913.9		mg/Kg		91	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	936.7		mg/Kg		94	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	102		70 - 130						
o-Terphenyl	113		70 - 130						

Lab Sample ID: 890-4296-A-17-B MS

Matrix: Solid

Analysis Batch: 48815

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48829

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1037		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	64.7		998	1067		mg/Kg		100	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	125		70 - 130						
o-Terphenyl	106		70 - 130						

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-4296-A-17-C MSD

Matrix: Solid

Analysis Batch: 48815

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48829

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	944.4		mg/Kg		93	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	64.7		999	976.8		mg/Kg		91	70 - 130	9	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	98		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48886/1-A

Matrix: Solid

Analysis Batch: 49198

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			03/22/23 03:46	1

Lab Sample ID: LCS 880-48886/2-A

Matrix: Solid

Analysis Batch: 49198

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.2		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-48886/3-A

Matrix: Solid

Analysis Batch: 49198

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	262.8		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-25824-A-7-C MS

Matrix: Solid

Analysis Batch: 49198

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.56		248	258.3		mg/Kg		102	90 - 110

Lab Sample ID: 880-25824-A-7-D MSD

Matrix: Solid

Analysis Batch: 49198

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.56		248	256.8		mg/Kg		102	90 - 110	1	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-48973/1-A

Matrix: Solid

Analysis Batch: 49407

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			03/22/23 21:02	1

Lab Sample ID: LCS 880-48973/2-A

Matrix: Solid

Analysis Batch: 49407

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.9		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-48973/3-A

Matrix: Solid

Analysis Batch: 49407

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	255.2		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-25890-A-31-B MS

Matrix: Solid

Analysis Batch: 49407

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3150	F1	1250	4260	F1	mg/Kg		89	90 - 110

Lab Sample ID: 880-25890-A-31-C MSD

Matrix: Solid

Analysis Batch: 49407

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3150	F1	1250	4212	F1	mg/Kg		85	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 49186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49186/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 49225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25892-1	T-1 (0-1')	Total/NA	Solid	5035	
880-25892-2	T-1 (1.5')	Total/NA	Solid	5035	
880-25892-3	T-1 (2')	Total/NA	Solid	5035	
880-25892-4	T-1 (3')	Total/NA	Solid	5035	
880-25892-5	T-1 (4')	Total/NA	Solid	5035	
MB 880-49225/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49225/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49225/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25892-1 MS	T-1 (0-1')	Total/NA	Solid	5035	
880-25892-1 MSD	T-1 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 49294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25892-1	T-1 (0-1')	Total/NA	Solid	8021B	49225
880-25892-2	T-1 (1.5')	Total/NA	Solid	8021B	49225
880-25892-3	T-1 (2')	Total/NA	Solid	8021B	49225
880-25892-4	T-1 (3')	Total/NA	Solid	8021B	49225
880-25892-5	T-1 (4')	Total/NA	Solid	8021B	49225
MB 880-49186/5-A	Method Blank	Total/NA	Solid	8021B	49186
MB 880-49225/5-A	Method Blank	Total/NA	Solid	8021B	49225
LCS 880-49225/1-A	Lab Control Sample	Total/NA	Solid	8021B	49225
LCSD 880-49225/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49225
880-25892-1 MS	T-1 (0-1')	Total/NA	Solid	8021B	49225
880-25892-1 MSD	T-1 (0-1')	Total/NA	Solid	8021B	49225

Analysis Batch: 49390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25892-1	T-1 (0-1')	Total/NA	Solid	Total BTEX	
880-25892-2	T-1 (1.5')	Total/NA	Solid	Total BTEX	
880-25892-3	T-1 (2')	Total/NA	Solid	Total BTEX	
880-25892-4	T-1 (3')	Total/NA	Solid	Total BTEX	
880-25892-5	T-1 (4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 48815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25892-1	T-1 (0-1')	Total/NA	Solid	8015B NM	48829
880-25892-2	T-1 (1.5')	Total/NA	Solid	8015B NM	48829
880-25892-3	T-1 (2')	Total/NA	Solid	8015B NM	48829
880-25892-4	T-1 (3')	Total/NA	Solid	8015B NM	48829
880-25892-5	T-1 (4')	Total/NA	Solid	8015B NM	48829
MB 880-48829/1-A	Method Blank	Total/NA	Solid	8015B NM	48829
LCS 880-48829/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48829
LCSD 880-48829/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48829
890-4296-A-17-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48829
890-4296-A-17-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48829

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
SDG: Eddy County, New Mexico

GC Semi VOA

Prep Batch: 48829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25892-1	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-25892-2	T-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-25892-3	T-1 (2')	Total/NA	Solid	8015NM Prep	
880-25892-4	T-1 (3')	Total/NA	Solid	8015NM Prep	
880-25892-5	T-1 (4')	Total/NA	Solid	8015NM Prep	
MB 880-48829/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48829/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48829/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4296-A-17-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4296-A-17-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25892-1	T-1 (0-1')	Total/NA	Solid	8015 NM	
880-25892-2	T-1 (1.5')	Total/NA	Solid	8015 NM	
880-25892-3	T-1 (2')	Total/NA	Solid	8015 NM	
880-25892-4	T-1 (3')	Total/NA	Solid	8015 NM	
880-25892-5	T-1 (4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25892-4	T-1 (3')	Soluble	Solid	DI Leach	
880-25892-5	T-1 (4')	Soluble	Solid	DI Leach	
MB 880-48886/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48886/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48886/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25824-A-7-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-25824-A-7-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 48973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25892-1	T-1 (0-1')	Soluble	Solid	DI Leach	
880-25892-2	T-1 (1.5')	Soluble	Solid	DI Leach	
880-25892-3	T-1 (2')	Soluble	Solid	DI Leach	
MB 880-48973/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48973/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48973/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25890-A-31-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-25890-A-31-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 49198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25892-4	T-1 (3')	Soluble	Solid	300.0	48886
880-25892-5	T-1 (4')	Soluble	Solid	300.0	48886
MB 880-48886/1-A	Method Blank	Soluble	Solid	300.0	48886
LCS 880-48886/2-A	Lab Control Sample	Soluble	Solid	300.0	48886
LCSD 880-48886/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48886
880-25824-A-7-C MS	Matrix Spike	Soluble	Solid	300.0	48886
880-25824-A-7-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48886

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
SDG: Eddy County, New Mexico

HPLC/IC

Analysis Batch: 49407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25892-1	T-1 (0-1')	Soluble	Solid	300.0	48973
880-25892-2	T-1 (1.5')	Soluble	Solid	300.0	48973
880-25892-3	T-1 (2')	Soluble	Solid	300.0	48973
MB 880-48973/1-A	Method Blank	Soluble	Solid	300.0	48973
LCS 880-48973/2-A	Lab Control Sample	Soluble	Solid	300.0	48973
LCSD 880-48973/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48973
880-25890-A-31-B MS	Matrix Spike	Soluble	Solid	300.0	48973
880-25890-A-31-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48973

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (0-1')

Lab Sample ID: 880-25892-1

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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	49225	03/22/23 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49294	03/23/23 23:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49390	03/24/23 10:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			49052	03/20/23 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48829	03/17/23 10:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48815	03/17/23 22:11	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48973	03/20/23 11:05	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49407	03/24/23 16:32	SMC	EET MID

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-25892-2

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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	49225	03/22/23 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49294	03/24/23 00:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49390	03/24/23 10:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			49052	03/20/23 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48829	03/17/23 10:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48815	03/17/23 22:32	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	48973	03/20/23 11:05	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49407	03/24/23 16:37	SMC	EET MID

Client Sample ID: T-1 (2')

Lab Sample ID: 880-25892-3

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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	49225	03/22/23 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49294	03/24/23 00:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49390	03/24/23 10:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			49052	03/20/23 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48829	03/17/23 10:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48815	03/17/23 22:54	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48973	03/20/23 11:05	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49407	03/24/23 16:42	SMC	EET MID

Client Sample ID: T-1 (3')

Lab Sample ID: 880-25892-4

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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	49225	03/22/23 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49294	03/24/23 00:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49390	03/24/23 10:15	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (3')

Lab Sample ID: 880-25892-4

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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			49052	03/20/23 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48829	03/17/23 10:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48815	03/17/23 23:16	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	48886	03/18/23 15:10	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49198	03/22/23 06:06	SMC	EET MID

Client Sample ID: T-1 (4')

Lab Sample ID: 880-25892-5

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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	49225	03/22/23 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49294	03/24/23 01:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49390	03/24/23 10:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			49052	03/20/23 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48829	03/17/23 10:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48815	03/17/23 23:38	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	48886	03/18/23 15:10	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49198	03/22/23 06:11	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
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	T104704400-22-25	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
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Method Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25892-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25892-1	T-1 (0-1')	Solid	03/13/23 00:00	03/14/23 13:38
880-25892-2	T-1 (1.5')	Solid	03/13/23 00:00	03/14/23 13:38
880-25892-3	T-1 (2')	Solid	03/13/23 00:00	03/14/23 13:38
880-25892-4	T-1 (3')	Solid	03/13/23 00:00	03/14/23 13:38
880-25892-5	T-1 (4')	Solid	03/13/23 00:00	03/14/23 13:38

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Work Order No: 25892

Page 1 of 1

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@ford.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Rowfields ☐ IRC ☐ perfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADaPT ☐ Other	

ANALYSIS REQUEST									
Project Name	Shell Federal #2 SWD	Turn Around	Pres. Code	Preservative Codes					
Project Number	1194	☒ Routine ☐ Rush		None NO	DI Water H ₂ O				
Project Location	Eddy County, New Mexico	Due Date		Cool Cool	MeOH Me				
Sampler's Name	FV	Standard		HCL HC	HNO ₃ HN				
PO #				H ₂ SO ₄ H ₂	NaOH Na				
SAMPLE RECEIPT				H ₃ PO ₄ HP					
Received Intact:	Temp Blank:	Yes No	Wet Ice:	Yes No	NaHSO ₄ NABIS				
Cooler Custody Seals:	Yes No	Thermometer ID			Na ₂ S ₂ O ₃ NaSO ₃				
Sample Custody Seals:	Yes No	Correction Factor			Zn Acetate+NaOH Zn				
Total Containers		Temperature Reading			NaOH+Ascorbic Acid SAPC				
		Corrected Temperature							
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters		
T-1 (0-1')	3/13/2023		X		G	1	Chloride 300.0		
T-1 (1-5')	3/13/2023		X		G	1	TPH 8015M (GRO + DRO + MRO)		
T-1 (2')	3/13/2023		X		G	1	BTEX 8021B		
T-1 (3')	3/13/2023		X		G	1			
T-1 (4')	3/13/2023		X		G	1			
Comments									



Relinquished by (Signature)	Received by (Signature)	Date/Time
<i>Arana Luna</i>	<i>[Signature]</i>	3-14-23
		13:40

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-25892-1

SDG Number: Eddy County, New Mexico

Login Number: 25892

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

Generated 3/28/2023 7:58:29 AM

JOB DESCRIPTION

Shell Federal #2 SWD
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-25894-1

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
3/28/2023 7:58:29 AM

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

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Laboratory Job ID: 880-25894-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25894-1
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
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 #2 SWD

Job ID: 880-25894-1
SDG: Eddy County, New Mexico

Job ID: 880-25894-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-25894-1
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Receipt

The samples were received on 3/14/2023 1:38 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: T-2 (0-1') (880-25894-1), T-2 (1.5') (880-25894-2), T-2 (2') (880-25894-3), T-2 (3') (880-25894-4) and T-2 (4') (880-25894-5).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-49247 and analytical batch 880-49364 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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.

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25894-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (0-1')

Lab Sample ID: 880-25894-1

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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		03/22/23 16:36	03/25/23 19:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:36	03/25/23 19:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:36	03/25/23 19:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/22/23 16:36	03/25/23 19:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:36	03/25/23 19:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/22/23 16:36	03/25/23 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	03/22/23 16:36	03/25/23 19:56	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/22/23 16:36	03/25/23 19:56	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			03/26/23 08:43	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			03/20/23 17:55	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		03/17/23 10:48	03/17/23 23:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/17/23 10:48	03/17/23 23:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/17/23 10:48	03/17/23 23:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	03/17/23 10:48	03/17/23 23:59	1
o-Terphenyl	110		70 - 130	03/17/23 10:48	03/17/23 23:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.5		5.03		mg/Kg			03/24/23 11:28	1

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-25894-2

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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		03/22/23 16:36	03/25/23 20:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/22/23 16:36	03/25/23 20:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/22/23 16:36	03/25/23 20:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/22/23 16:36	03/25/23 20:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/22/23 16:36	03/25/23 20:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/22/23 16:36	03/25/23 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	03/22/23 16:36	03/25/23 20:17	1
1,4-Difluorobenzene (Surr)	84		70 - 130	03/22/23 16:36	03/25/23 20:17	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25894-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-25894-2

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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			03/26/23 08:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/20/23 17:55	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		03/17/23 10:48	03/18/23 00:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/17/23 10:48	03/18/23 00:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/17/23 10:48	03/18/23 00:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				03/17/23 10:48	03/18/23 00:22	1
o-Terphenyl	93		70 - 130				03/17/23 10:48	03/18/23 00:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	637		5.04		mg/Kg			03/24/23 11:33	1

Client Sample ID: T-2 (2')

Lab Sample ID: 880-25894-3

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/22/23 16:36	03/25/23 20:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/22/23 16:36	03/25/23 20:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/22/23 16:36	03/25/23 20:38	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/22/23 16:36	03/25/23 20:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/22/23 16:36	03/25/23 20:38	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/22/23 16:36	03/25/23 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				03/22/23 16:36	03/25/23 20:38	1
1,4-Difluorobenzene (Surr)	86		70 - 130				03/22/23 16:36	03/25/23 20:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/26/23 08:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/20/23 17:55	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		03/17/23 10:48	03/18/23 00:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/17/23 10:48	03/18/23 00:43	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25894-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (2')

Lab Sample ID: 880-25894-3

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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		03/17/23 10:48	03/18/23 00:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				03/17/23 10:48	03/18/23 00:43	1
o-Terphenyl	106		70 - 130				03/17/23 10:48	03/18/23 00:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	706		4.97		mg/Kg			03/24/23 11:47	1

Client Sample ID: T-2 (3')

Lab Sample ID: 880-25894-4

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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		03/22/23 16:36	03/25/23 20:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 16:36	03/25/23 20:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 16:36	03/25/23 20:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 16:36	03/25/23 20:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 16:36	03/25/23 20:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 16:36	03/25/23 20:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				03/22/23 16:36	03/25/23 20:58	1
1,4-Difluorobenzene (Surr)	91		70 - 130				03/22/23 16:36	03/25/23 20:58	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			03/26/23 08:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/20/23 17:55	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		03/17/23 10:48	03/18/23 01:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/17/23 10:48	03/18/23 01:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/17/23 10:48	03/18/23 01:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				03/17/23 10:48	03/18/23 01:04	1
o-Terphenyl	91		70 - 130				03/17/23 10:48	03/18/23 01:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		4.98		mg/Kg			03/24/23 11:52	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25894-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (4')

Lab Sample ID: 880-25894-5

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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		03/22/23 16:36	03/25/23 21:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 16:36	03/25/23 21:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 16:36	03/25/23 21:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 16:36	03/25/23 21:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 16:36	03/25/23 21:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 16:36	03/25/23 21:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/22/23 16:36	03/25/23 21:19	1
1,4-Difluorobenzene (Surr)	99		70 - 130	03/22/23 16:36	03/25/23 21:19	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			03/26/23 08:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/20/23 17:55	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		03/17/23 10:48	03/18/23 01:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/17/23 10:48	03/18/23 01:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/17/23 10:48	03/18/23 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	03/17/23 10:48	03/18/23 01:47	1
o-Terphenyl	95		70 - 130	03/17/23 10:48	03/18/23 01:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126		5.02		mg/Kg			03/24/23 12:06	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25894-1
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)
880-25894-1	T-2 (0-1')	109	85
880-25894-2	T-2 (1.5')	110	84
880-25894-3	T-2 (2')	112	86
880-25894-4	T-2 (3')	113	91
880-25894-5	T-2 (4')	114	99
880-25895-A-1-D MS	Matrix Spike	114	96
880-25895-A-1-E MSD	Matrix Spike Duplicate	107	85
LCS 880-49247/1-A	Lab Control Sample	109	91
LCSD 880-49247/2-A	Lab Control Sample Dup	109	89
MB 880-49246/5-A	Method Blank	101	86
MB 880-49247/5-A	Method Blank	97	84
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)
880-25894-1	T-2 (0-1')	106	110
880-25894-2	T-2 (1.5')	88	93
880-25894-3	T-2 (2')	103	106
880-25894-4	T-2 (3')	83	91
880-25894-5	T-2 (4')	86	95
890-4296-A-17-B MS	Matrix Spike	125	106
890-4296-A-17-C MSD	Matrix Spike Duplicate	97	98
LCS 880-48829/2-A	Lab Control Sample	97	111
LCSD 880-48829/3-A	Lab Control Sample Dup	102	113
MB 880-48829/1-A	Method Blank	112	114
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25894-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49246/5-A

Matrix: Solid

Analysis Batch: 49364

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49246

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:31	03/24/23 21:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:31	03/24/23 21:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:31	03/24/23 21:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/23 16:31	03/24/23 21:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:31	03/24/23 21:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/23 16:31	03/24/23 21:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/22/23 16:31	03/24/23 21:53	1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/22/23 16:31	03/24/23 21:53	1

Lab Sample ID: MB 880-49247/5-A

Matrix: Solid

Analysis Batch: 49364

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:36	03/25/23 17:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:36	03/25/23 17:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:36	03/25/23 17:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/23 16:36	03/25/23 17:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:36	03/25/23 17:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/23 16:36	03/25/23 17:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/22/23 16:36	03/25/23 17:51	1
1,4-Difluorobenzene (Surr)	84		70 - 130	03/22/23 16:36	03/25/23 17:51	1

Lab Sample ID: LCS 880-49247/1-A

Matrix: Solid

Analysis Batch: 49364

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08780		mg/Kg		88	70 - 130
Toluene	0.100	0.08998		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08794		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1830		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09556		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-49247/2-A

Matrix: Solid

Analysis Batch: 49364

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49247

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08664		mg/Kg		87	70 - 130	1	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25894-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-49247/2-A

Matrix: Solid

Analysis Batch: 49364

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49247

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09036		mg/Kg		90	70 - 130	0	35
Ethylbenzene	0.100	0.08629		mg/Kg		86	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1810		mg/Kg		90	70 - 130	1	35
o-Xylene	0.100	0.09389		mg/Kg		94	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-25895-A-1-D MS

Matrix: Solid

Analysis Batch: 49364

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49247

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1 F2	0.0998	0.009642	F1	mg/Kg		10	70 - 130
Toluene	<0.00200	U F1 F2	0.0998	0.01330	F1	mg/Kg		13	70 - 130
Ethylbenzene	<0.00200	U F1 F2	0.0998	0.01496	F1	mg/Kg		14	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.03004	F1	mg/Kg		15	70 - 130
o-Xylene	<0.00200	U F1 F2	0.0998	0.01779	F1	mg/Kg		18	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-25895-A-1-E MSD

Matrix: Solid

Analysis Batch: 49364

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 49247

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.100	0.06465	F1 F2	mg/Kg		65	70 - 130	148	35
Toluene	<0.00200	U F1 F2	0.100	0.06935	F1 F2	mg/Kg		69	70 - 130	136	35
Ethylbenzene	<0.00200	U F1 F2	0.100	0.06774	F1 F2	mg/Kg		66	70 - 130	128	35
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.1395	F2	mg/Kg		70	70 - 130	129	35
o-Xylene	<0.00200	U F1 F2	0.100	0.07205	F2	mg/Kg		72	70 - 130	121	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

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

Lab Sample ID: MB 880-48829/1-A

Matrix: Solid

Analysis Batch: 48815

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48829

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		03/17/23 10:48	03/17/23 19:57	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25894-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-48829/1-A

Matrix: Solid

Analysis Batch: 48815

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/17/23 10:48	03/17/23 19:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/17/23 10:48	03/17/23 19:57	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				03/17/23 10:48	03/17/23 19:57	1
o-Terphenyl	114		70 - 130				03/17/23 10:48	03/17/23 19:57	1

Lab Sample ID: LCS 880-48829/2-A

Matrix: Solid

Analysis Batch: 48815

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	955.3		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	911.3		mg/Kg		91	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	97		70 - 130				
o-Terphenyl	111		70 - 130				

Lab Sample ID: LCSD 880-48829/3-A

Matrix: Solid

Analysis Batch: 48815

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48829

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	913.9		mg/Kg		91	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	936.7		mg/Kg		94	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	102		70 - 130						
o-Terphenyl	113		70 - 130						

Lab Sample ID: 890-4296-A-17-B MS

Matrix: Solid

Analysis Batch: 48815

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48829

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1037		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	64.7		998	1067		mg/Kg		100	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	125		70 - 130						
o-Terphenyl	106		70 - 130						

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25894-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-4296-A-17-C MSD

Matrix: Solid

Analysis Batch: 48815

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48829

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	944.4		mg/Kg		93	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	64.7		999	976.8		mg/Kg		91	70 - 130	9	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	98		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48971/1-A

Matrix: Solid

Analysis Batch: 49464

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			03/24/23 10:10	1

Lab Sample ID: LCS 880-48971/2-A

Matrix: Solid

Analysis Batch: 49464

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	265.0		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-48971/3-A

Matrix: Solid

Analysis Batch: 49464

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	265.5		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-25894-2 MS

Matrix: Solid

Analysis Batch: 49464

Client Sample ID: T-2 (1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	637		252	881.3		mg/Kg		97	90 - 110

Lab Sample ID: 880-25894-2 MSD

Matrix: Solid

Analysis Batch: 49464

Client Sample ID: T-2 (1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	637		252	883.9		mg/Kg		98	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25894-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 49246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49246/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 49247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25894-1	T-2 (0-1')	Total/NA	Solid	5035	
880-25894-2	T-2 (1.5')	Total/NA	Solid	5035	
880-25894-3	T-2 (2')	Total/NA	Solid	5035	
880-25894-4	T-2 (3')	Total/NA	Solid	5035	
880-25894-5	T-2 (4')	Total/NA	Solid	5035	
MB 880-49247/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49247/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49247/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25895-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-25895-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25894-1	T-2 (0-1')	Total/NA	Solid	8021B	49247
880-25894-2	T-2 (1.5')	Total/NA	Solid	8021B	49247
880-25894-3	T-2 (2')	Total/NA	Solid	8021B	49247
880-25894-4	T-2 (3')	Total/NA	Solid	8021B	49247
880-25894-5	T-2 (4')	Total/NA	Solid	8021B	49247
MB 880-49246/5-A	Method Blank	Total/NA	Solid	8021B	49246
MB 880-49247/5-A	Method Blank	Total/NA	Solid	8021B	49247
LCS 880-49247/1-A	Lab Control Sample	Total/NA	Solid	8021B	49247
LCSD 880-49247/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49247
880-25895-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	49247
880-25895-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49247

Analysis Batch: 49519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25894-1	T-2 (0-1')	Total/NA	Solid	Total BTEX	
880-25894-2	T-2 (1.5')	Total/NA	Solid	Total BTEX	
880-25894-3	T-2 (2')	Total/NA	Solid	Total BTEX	
880-25894-4	T-2 (3')	Total/NA	Solid	Total BTEX	
880-25894-5	T-2 (4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 48815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25894-1	T-2 (0-1')	Total/NA	Solid	8015B NM	48829
880-25894-2	T-2 (1.5')	Total/NA	Solid	8015B NM	48829
880-25894-3	T-2 (2')	Total/NA	Solid	8015B NM	48829
880-25894-4	T-2 (3')	Total/NA	Solid	8015B NM	48829
880-25894-5	T-2 (4')	Total/NA	Solid	8015B NM	48829
MB 880-48829/1-A	Method Blank	Total/NA	Solid	8015B NM	48829
LCS 880-48829/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48829
LCSD 880-48829/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48829
890-4296-A-17-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48829
890-4296-A-17-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48829

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25894-1
SDG: Eddy County, New Mexico

GC Semi VOA

Prep Batch: 48829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25894-1	T-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-25894-2	T-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-25894-3	T-2 (2')	Total/NA	Solid	8015NM Prep	
880-25894-4	T-2 (3')	Total/NA	Solid	8015NM Prep	
880-25894-5	T-2 (4')	Total/NA	Solid	8015NM Prep	
MB 880-48829/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48829/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48829/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4296-A-17-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4296-A-17-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25894-1	T-2 (0-1')	Total/NA	Solid	8015 NM	
880-25894-2	T-2 (1.5')	Total/NA	Solid	8015 NM	
880-25894-3	T-2 (2')	Total/NA	Solid	8015 NM	
880-25894-4	T-2 (3')	Total/NA	Solid	8015 NM	
880-25894-5	T-2 (4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25894-1	T-2 (0-1')	Soluble	Solid	DI Leach	
880-25894-2	T-2 (1.5')	Soluble	Solid	DI Leach	
880-25894-3	T-2 (2')	Soluble	Solid	DI Leach	
880-25894-4	T-2 (3')	Soluble	Solid	DI Leach	
880-25894-5	T-2 (4')	Soluble	Solid	DI Leach	
MB 880-48971/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48971/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48971/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25894-2 MS	T-2 (1.5')	Soluble	Solid	DI Leach	
880-25894-2 MSD	T-2 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 49464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25894-1	T-2 (0-1')	Soluble	Solid	300.0	48971
880-25894-2	T-2 (1.5')	Soluble	Solid	300.0	48971
880-25894-3	T-2 (2')	Soluble	Solid	300.0	48971
880-25894-4	T-2 (3')	Soluble	Solid	300.0	48971
880-25894-5	T-2 (4')	Soluble	Solid	300.0	48971
MB 880-48971/1-A	Method Blank	Soluble	Solid	300.0	48971
LCS 880-48971/2-A	Lab Control Sample	Soluble	Solid	300.0	48971
LCSD 880-48971/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48971
880-25894-2 MS	T-2 (1.5')	Soluble	Solid	300.0	48971
880-25894-2 MSD	T-2 (1.5')	Soluble	Solid	300.0	48971

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25894-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (0-1')

Lab Sample ID: 880-25894-1

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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	49247	03/22/23 16:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49364	03/25/23 19:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49519	03/26/23 08:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49053	03/20/23 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48829	03/17/23 10:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48815	03/17/23 23:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	48971	03/20/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49464	03/24/23 11:28	SMC	EET MID

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-25894-2

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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	49247	03/22/23 16:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49364	03/25/23 20:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49519	03/26/23 08:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49053	03/20/23 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48829	03/17/23 10:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48815	03/18/23 00:22	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48971	03/20/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49464	03/24/23 11:33	SMC	EET MID

Client Sample ID: T-2 (2')

Lab Sample ID: 880-25894-3

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	49247	03/22/23 16:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49364	03/25/23 20:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49519	03/26/23 08:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49053	03/20/23 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48829	03/17/23 10:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48815	03/18/23 00:43	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48971	03/20/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49464	03/24/23 11:47	SMC	EET MID

Client Sample ID: T-2 (3')

Lab Sample ID: 880-25894-4

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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	49247	03/22/23 16:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49364	03/25/23 20:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49519	03/26/23 08:43	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25894-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (3')

Lab Sample ID: 880-25894-4

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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			49053	03/20/23 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48829	03/17/23 10:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48815	03/18/23 01:04	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48971	03/20/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49464	03/24/23 11:52	SMC	EET MID

Client Sample ID: T-2 (4')

Lab Sample ID: 880-25894-5

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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	49247	03/22/23 16:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49364	03/25/23 21:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49519	03/26/23 08:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49053	03/20/23 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48829	03/17/23 10:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48815	03/18/23 01:47	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	48971	03/20/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49464	03/24/23 12:06	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25894-1
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	T104704400-22-25	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: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25894-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25894-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25894-1	T-2 (0-1')	Solid	03/13/23 00:00	03/14/23 13:38
880-25894-2	T-2 (1.5')	Solid	03/13/23 00:00	03/14/23 13:38
880-25894-3	T-2 (2')	Solid	03/13/23 00:00	03/14/23 13:38
880-25894-4	T-2 (3')	Solid	03/13/23 00:00	03/14/23 13:38
880-25894-5	T-2 (4')	Solid	03/13/23 00:00	03/14/23 13:38

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880-25894 Chain of Custody

Page 1 of 1

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@forl.com

[illegible][illegible]

Relinquished by (Signature)	Date/Time	Rec'd
<i>Arena [Signature]</i>	3-11-23 1:38	<i>[Signature]</i>

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-25894-1

SDG Number: Eddy County, New Mexico

Login Number: 25894

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

Generated 3/28/2023 7:58:29 AM

JOB DESCRIPTION

Shell Federal #2 SWD
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-25895-1

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
3/28/2023 7:58:29 AM

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

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Laboratory Job ID: 880-25895-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25895-1
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
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 #2 SWD

Job ID: 880-25895-1
SDG: Eddy County, New Mexico

Job ID: 880-25895-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-25895-1**

Receipt

The samples were received on 3/14/2023 1:38 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: T-3 (0-1') (880-25895-1), T-3 (1.5') (880-25895-2), T-3 (2') (880-25895-3), T-3 (3') (880-25895-4) and T-3 (4') (880-25895-5).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-49247 and analytical batch 880-49364 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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 #2 SWD

Job ID: 880-25895-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (0-1')

Lab Sample ID: 880-25895-1

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1 F2	0.00200		mg/Kg		03/22/23 16:36	03/25/23 18:12	1
Toluene	<0.00200	U F1 F2	0.00200		mg/Kg		03/22/23 16:36	03/25/23 18:12	1
Ethylbenzene	<0.00200	U F1 F2	0.00200		mg/Kg		03/22/23 16:36	03/25/23 18:12	1
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.00399		mg/Kg		03/22/23 16:36	03/25/23 18:12	1
o-Xylene	<0.00200	U F1 F2	0.00200		mg/Kg		03/22/23 16:36	03/25/23 18:12	1
Xylenes, Total	<0.00399	U F1 F2	0.00399		mg/Kg		03/22/23 16:36	03/25/23 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	03/22/23 16:36	03/25/23 18:12	1
1,4-Difluorobenzene (Surr)	74		70 - 130	03/22/23 16:36	03/25/23 18:12	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			03/26/23 08:43	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			03/20/23 17:55	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		03/17/23 10:48	03/18/23 02:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/17/23 10:48	03/18/23 02:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/17/23 10:48	03/18/23 02:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/17/23 10:48	03/18/23 02:09	1
o-Terphenyl	100		70 - 130	03/17/23 10:48	03/18/23 02:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	384		5.03		mg/Kg			03/24/23 12:11	1

Client Sample ID: T-3 (1.5')

Lab Sample ID: 880-25895-2

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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		03/22/23 16:36	03/25/23 18:33	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/22/23 16:36	03/25/23 18:33	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/22/23 16:36	03/25/23 18:33	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/22/23 16:36	03/25/23 18:33	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/22/23 16:36	03/25/23 18:33	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/22/23 16:36	03/25/23 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	03/22/23 16:36	03/25/23 18:33	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/22/23 16:36	03/25/23 18:33	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25895-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (1.5')

Lab Sample ID: 880-25895-2

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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			03/26/23 08:43	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			03/20/23 17:55	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		03/17/23 10:48	03/18/23 02:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/17/23 10:48	03/18/23 02:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/17/23 10:48	03/18/23 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				03/17/23 10:48	03/18/23 02:31	1
o-Terphenyl	106		70 - 130				03/17/23 10:48	03/18/23 02:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	825		4.99		mg/Kg			03/24/23 12:16	1

Client Sample ID: T-3 (2')

Lab Sample ID: 880-25895-3

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/22/23 16:36	03/25/23 18:54	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/22/23 16:36	03/25/23 18:54	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/22/23 16:36	03/25/23 18:54	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/22/23 16:36	03/25/23 18:54	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/22/23 16:36	03/25/23 18:54	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/22/23 16:36	03/25/23 18:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/22/23 16:36	03/25/23 18:54	1
1,4-Difluorobenzene (Surr)	93		70 - 130				03/22/23 16:36	03/25/23 18:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/26/23 08:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/20/23 17:55	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		03/17/23 10:48	03/18/23 02:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/17/23 10:48	03/18/23 02:54	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25895-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (2')

Lab Sample ID: 880-25895-3

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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		03/17/23 10:48	03/18/23 02:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				03/17/23 10:48	03/18/23 02:54	1
o-Terphenyl	104		70 - 130				03/17/23 10:48	03/18/23 02:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	473		4.95		mg/Kg			03/24/23 12:21	1

Client Sample ID: T-3 (3')

Lab Sample ID: 880-25895-4

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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		03/22/23 16:36	03/25/23 19:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/22/23 16:36	03/25/23 19:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/22/23 16:36	03/25/23 19:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/22/23 16:36	03/25/23 19:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/22/23 16:36	03/25/23 19:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/22/23 16:36	03/25/23 19:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				03/22/23 16:36	03/25/23 19:15	1
1,4-Difluorobenzene (Surr)	110		70 - 130				03/22/23 16:36	03/25/23 19:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/26/23 08:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/20/23 17:55	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		03/17/23 10:48	03/18/23 03:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/17/23 10:48	03/18/23 03:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/17/23 10:48	03/18/23 03:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				03/17/23 10:48	03/18/23 03:16	1
o-Terphenyl	90		70 - 130				03/17/23 10:48	03/18/23 03:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.3		4.98		mg/Kg			03/27/23 18:40	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25895-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (4')

Lab Sample ID: 880-25895-5

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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		03/22/23 16:36	03/25/23 19:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 16:36	03/25/23 19:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 16:36	03/25/23 19:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 16:36	03/25/23 19:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 16:36	03/25/23 19:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 16:36	03/25/23 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	03/22/23 16:36	03/25/23 19:35	1
1,4-Difluorobenzene (Surr)	76		70 - 130	03/22/23 16:36	03/25/23 19:35	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			03/26/23 08:43	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			03/20/23 17:55	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		03/17/23 10:48	03/18/23 03:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/17/23 10:48	03/18/23 03:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/17/23 10:48	03/18/23 03:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/17/23 10:48	03/18/23 03:39	1
o-Terphenyl	98		70 - 130	03/17/23 10:48	03/18/23 03:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	329		5.04		mg/Kg			03/27/23 18:45	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25895-1
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)
880-25895-1	T-3 (0-1')	81	74
880-25895-1 MS	T-3 (0-1')	114	96
880-25895-1 MSD	T-3 (0-1')	107	85
880-25895-2	T-3 (1.5')	109	95
880-25895-3	T-3 (2')	101	93
880-25895-4	T-3 (3')	109	110
880-25895-5	T-3 (4')	73	76
LCS 880-49247/1-A	Lab Control Sample	109	91
LCSD 880-49247/2-A	Lab Control Sample Dup	109	89
MB 880-49246/5-A	Method Blank	101	86
MB 880-49247/5-A	Method Blank	97	84
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)
880-25895-1	T-3 (0-1')	99	100
880-25895-2	T-3 (1.5')	105	106
880-25895-3	T-3 (2')	101	104
880-25895-4	T-3 (3')	82	90
880-25895-5	T-3 (4')	96	98
890-4296-A-17-B MS	Matrix Spike	125	106
890-4296-A-17-C MSD	Matrix Spike Duplicate	97	98
LCS 880-48829/2-A	Lab Control Sample	97	111
LCSD 880-48829/3-A	Lab Control Sample Dup	102	113
MB 880-48829/1-A	Method Blank	112	114
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25895-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49246/5-A

Matrix: Solid

Analysis Batch: 49364

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49246

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:31	03/24/23 21:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:31	03/24/23 21:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:31	03/24/23 21:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/23 16:31	03/24/23 21:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:31	03/24/23 21:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/23 16:31	03/24/23 21:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/22/23 16:31	03/24/23 21:53	1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/22/23 16:31	03/24/23 21:53	1

Lab Sample ID: MB 880-49247/5-A

Matrix: Solid

Analysis Batch: 49364

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:36	03/25/23 17:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:36	03/25/23 17:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:36	03/25/23 17:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/23 16:36	03/25/23 17:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:36	03/25/23 17:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/23 16:36	03/25/23 17:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/22/23 16:36	03/25/23 17:51	1
1,4-Difluorobenzene (Surr)	84		70 - 130	03/22/23 16:36	03/25/23 17:51	1

Lab Sample ID: LCS 880-49247/1-A

Matrix: Solid

Analysis Batch: 49364

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08780		mg/Kg		88	70 - 130
Toluene	0.100	0.08998		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08794		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1830		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09556		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-49247/2-A

Matrix: Solid

Analysis Batch: 49364

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49247

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08664		mg/Kg		87	70 - 130	1	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25895-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-49247/2-A

Matrix: Solid

Analysis Batch: 49364

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49247

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09036		mg/Kg		90	70 - 130	0	35
Ethylbenzene	0.100	0.08629		mg/Kg		86	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1810		mg/Kg		90	70 - 130	1	35
o-Xylene	0.100	0.09389		mg/Kg		94	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-25895-1 MS

Matrix: Solid

Analysis Batch: 49364

Client Sample ID: T-3 (0-1')

Prep Type: Total/NA

Prep Batch: 49247

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1 F2	0.0998	0.009642	F1	mg/Kg		10	70 - 130
Toluene	<0.00200	U F1 F2	0.0998	0.01330	F1	mg/Kg		13	70 - 130
Ethylbenzene	<0.00200	U F1 F2	0.0998	0.01496	F1	mg/Kg		14	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.03004	F1	mg/Kg		15	70 - 130
o-Xylene	<0.00200	U F1 F2	0.0998	0.01779	F1	mg/Kg		18	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-25895-1 MSD

Matrix: Solid

Analysis Batch: 49364

Client Sample ID: T-3 (0-1')

Prep Type: Total/NA

Prep Batch: 49247

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.100	0.06465	F1 F2	mg/Kg		65	70 - 130	148	35
Toluene	<0.00200	U F1 F2	0.100	0.06935	F1 F2	mg/Kg		69	70 - 130	136	35
Ethylbenzene	<0.00200	U F1 F2	0.100	0.06774	F1 F2	mg/Kg		66	70 - 130	128	35
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.1395	F2	mg/Kg		70	70 - 130	129	35
o-Xylene	<0.00200	U F1 F2	0.100	0.07205	F2	mg/Kg		72	70 - 130	121	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

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

Lab Sample ID: MB 880-48829/1-A

Matrix: Solid

Analysis Batch: 48815

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48829

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		03/17/23 10:48	03/17/23 19:57	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25895-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-48829/1-A

Matrix: Solid

Analysis Batch: 48815

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/17/23 10:48	03/17/23 19:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/17/23 10:48	03/17/23 19:57	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				03/17/23 10:48	03/17/23 19:57	1
o-Terphenyl	114		70 - 130				03/17/23 10:48	03/17/23 19:57	1

Lab Sample ID: LCS 880-48829/2-A

Matrix: Solid

Analysis Batch: 48815

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	955.3		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	911.3		mg/Kg		91	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	97		70 - 130				
o-Terphenyl	111		70 - 130				

Lab Sample ID: LCSD 880-48829/3-A

Matrix: Solid

Analysis Batch: 48815

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48829

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	913.9		mg/Kg		91	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	936.7		mg/Kg		94	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	102		70 - 130						
o-Terphenyl	113		70 - 130						

Lab Sample ID: 890-4296-A-17-B MS

Matrix: Solid

Analysis Batch: 48815

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48829

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1037		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	64.7		998	1067		mg/Kg		100	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	125		70 - 130						
o-Terphenyl	106		70 - 130						

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25895-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-4296-A-17-C MSD

Matrix: Solid

Analysis Batch: 48815

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48829

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	944.4		mg/Kg		93	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	64.7		999	976.8		mg/Kg		91	70 - 130	9	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	98		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48971/1-A

Matrix: Solid

Analysis Batch: 49464

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			03/24/23 10:10	1

Lab Sample ID: LCS 880-48971/2-A

Matrix: Solid

Analysis Batch: 49464

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	265.0		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-48971/3-A

Matrix: Solid

Analysis Batch: 49464

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	265.5		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-25894-A-2-C MS

Matrix: Solid

Analysis Batch: 49464

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	637		252	881.3		mg/Kg		97	90 - 110

Lab Sample ID: 880-25894-A-2-D MSD

Matrix: Solid

Analysis Batch: 49464

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	637		252	883.9		mg/Kg		98	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25895-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 49246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49246/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 49247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25895-1	T-3 (0-1')	Total/NA	Solid	5035	
880-25895-2	T-3 (1.5')	Total/NA	Solid	5035	
880-25895-3	T-3 (2')	Total/NA	Solid	5035	
880-25895-4	T-3 (3')	Total/NA	Solid	5035	
880-25895-5	T-3 (4')	Total/NA	Solid	5035	
MB 880-49247/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49247/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49247/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25895-1 MS	T-3 (0-1')	Total/NA	Solid	5035	
880-25895-1 MSD	T-3 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 49364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25895-1	T-3 (0-1')	Total/NA	Solid	8021B	49247
880-25895-2	T-3 (1.5')	Total/NA	Solid	8021B	49247
880-25895-3	T-3 (2')	Total/NA	Solid	8021B	49247
880-25895-4	T-3 (3')	Total/NA	Solid	8021B	49247
880-25895-5	T-3 (4')	Total/NA	Solid	8021B	49247
MB 880-49246/5-A	Method Blank	Total/NA	Solid	8021B	49246
MB 880-49247/5-A	Method Blank	Total/NA	Solid	8021B	49247
LCS 880-49247/1-A	Lab Control Sample	Total/NA	Solid	8021B	49247
LCSD 880-49247/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49247
880-25895-1 MS	T-3 (0-1')	Total/NA	Solid	8021B	49247
880-25895-1 MSD	T-3 (0-1')	Total/NA	Solid	8021B	49247

Analysis Batch: 49518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25895-1	T-3 (0-1')	Total/NA	Solid	Total BTEX	
880-25895-2	T-3 (1.5')	Total/NA	Solid	Total BTEX	
880-25895-3	T-3 (2')	Total/NA	Solid	Total BTEX	
880-25895-4	T-3 (3')	Total/NA	Solid	Total BTEX	
880-25895-5	T-3 (4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 48815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25895-1	T-3 (0-1')	Total/NA	Solid	8015B NM	48829
880-25895-2	T-3 (1.5')	Total/NA	Solid	8015B NM	48829
880-25895-3	T-3 (2')	Total/NA	Solid	8015B NM	48829
880-25895-4	T-3 (3')	Total/NA	Solid	8015B NM	48829
880-25895-5	T-3 (4')	Total/NA	Solid	8015B NM	48829
MB 880-48829/1-A	Method Blank	Total/NA	Solid	8015B NM	48829
LCS 880-48829/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48829
LCSD 880-48829/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48829
890-4296-A-17-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48829
890-4296-A-17-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48829

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25895-1
SDG: Eddy County, New Mexico

GC Semi VOA

Prep Batch: 48829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25895-1	T-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-25895-2	T-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-25895-3	T-3 (2')	Total/NA	Solid	8015NM Prep	
880-25895-4	T-3 (3')	Total/NA	Solid	8015NM Prep	
880-25895-5	T-3 (4')	Total/NA	Solid	8015NM Prep	
MB 880-48829/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48829/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48829/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4296-A-17-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4296-A-17-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25895-1	T-3 (0-1')	Total/NA	Solid	8015 NM	
880-25895-2	T-3 (1.5')	Total/NA	Solid	8015 NM	
880-25895-3	T-3 (2')	Total/NA	Solid	8015 NM	
880-25895-4	T-3 (3')	Total/NA	Solid	8015 NM	
880-25895-5	T-3 (4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25895-1	T-3 (0-1')	Soluble	Solid	DI Leach	
880-25895-2	T-3 (1.5')	Soluble	Solid	DI Leach	
880-25895-3	T-3 (2')	Soluble	Solid	DI Leach	
880-25895-4	T-3 (3')	Soluble	Solid	DI Leach	
880-25895-5	T-3 (4')	Soluble	Solid	DI Leach	
MB 880-48971/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48971/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48971/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25894-A-2-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-25894-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 49464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25895-1	T-3 (0-1')	Soluble	Solid	300.0	48971
880-25895-2	T-3 (1.5')	Soluble	Solid	300.0	48971
880-25895-3	T-3 (2')	Soluble	Solid	300.0	48971
880-25895-4	T-3 (3')	Soluble	Solid	300.0	48971
880-25895-5	T-3 (4')	Soluble	Solid	300.0	48971
MB 880-48971/1-A	Method Blank	Soluble	Solid	300.0	48971
LCS 880-48971/2-A	Lab Control Sample	Soluble	Solid	300.0	48971
LCSD 880-48971/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48971
880-25894-A-2-C MS	Matrix Spike	Soluble	Solid	300.0	48971
880-25894-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48971

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25895-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (0-1')

Lab Sample ID: 880-25895-1

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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	49247	03/22/23 16:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49364	03/25/23 18:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49518	03/26/23 08:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49054	03/20/23 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48829	03/17/23 10:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48815	03/18/23 02:09	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	48971	03/20/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49464	03/24/23 12:11	SMC	EET MID

Client Sample ID: T-3 (1.5')

Lab Sample ID: 880-25895-2

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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	49247	03/22/23 16:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49364	03/25/23 18:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49518	03/26/23 08:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49054	03/20/23 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48829	03/17/23 10:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48815	03/18/23 02:31	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48971	03/20/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49464	03/24/23 12:16	SMC	EET MID

Client Sample ID: T-3 (2')

Lab Sample ID: 880-25895-3

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	49247	03/22/23 16:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49364	03/25/23 18:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49518	03/26/23 08:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49054	03/20/23 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48829	03/17/23 10:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48815	03/18/23 02:54	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48971	03/20/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49464	03/24/23 12:21	SMC	EET MID

Client Sample ID: T-3 (3')

Lab Sample ID: 880-25895-4

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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	49247	03/22/23 16:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49364	03/25/23 19:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49518	03/26/23 08:43	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25895-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (3')

Lab Sample ID: 880-25895-4

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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			49054	03/20/23 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48829	03/17/23 10:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48815	03/18/23 03:16	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48971	03/20/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49464	03/27/23 18:40	SMC	EET MID

Client Sample ID: T-3 (4')

Lab Sample ID: 880-25895-5

Date Collected: 03/13/23 00:00

Matrix: Solid

Date Received: 03/14/23 13:38

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	49247	03/22/23 16:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49364	03/25/23 19:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49518	03/26/23 08:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49054	03/20/23 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48829	03/17/23 10:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48815	03/18/23 03:39	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48971	03/20/23 11:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49464	03/27/23 18:45	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25895-1
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	T104704400-22-25	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: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25895-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-25895-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25895-1	T-3 (0-1')	Solid	03/13/23 00:00	03/14/23 13:38
880-25895-2	T-3 (1.5')	Solid	03/13/23 00:00	03/14/23 13:38
880-25895-3	T-3 (2')	Solid	03/13/23 00:00	03/14/23 13:38
880-25895-4	T-3 (3')	Solid	03/13/23 00:00	03/14/23 13:38
880-25895-5	T-3 (4')	Solid	03/13/23 00:00	03/14/23 13:38

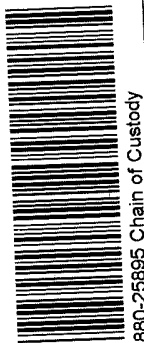
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Work Order No: 25895Page 1 of 1

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@forl.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Rowfields ☐ RC ☐ perfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other	

ANALYSIS REQUEST									
Project Name:	Shell Federal #2 SWD	Turn Around	Pres. Code						
Project Number:	1194	☒ Routine ☐ Rush							
Project Location:	Eddy County, New Mexico	Due Date							
Sampler's Name:	FV	Standard							
PO #:									
SAMPLE RECEIPT Received Intact: Yes ☒ No ☐ Thermometer ID: <u>330</u> Cooler Custody Seals: Yes ☒ No ☐ Correction Factor: <u>3.2</u> Sample Custody Seals: Yes ☒ No ☐ Temperature Reading: <u>2.9</u> Total Containers: <u>2.9</u>									
Sample Identification	Date	Time	Soli	Water	Grab/Comp	# of Cont			
T-3 (0-1')	3/13/2023		X		G	1	X	X	
T-3 (1-5')	3/13/2023		X		G	1	X	X	
T-3 (2')	3/13/2023		X		G	1	X	X	
T-3 (3')	3/13/2023		X		G	1	X	X	
T-3 (4')	3/13/2023		X		G	1	X	X	
							Chloride 300.0		
							TPH 8015M (GRO + DRO + MRO)		
							BTX 8021B		
							Parameters		
							None NO		
							Cool Cool		
							HCL HC		
							H ₂ SO ₄ H ₂		
							H ₃ PO ₄ HP		
							NaHSO ₄ NABIS		
							Na ₂ S ₂ O ₃ NaSO ₃		
							Zn Acetate+NaOH Zn		
							NaOH+Ascorbic Acid SAPC		
							Sample Comments		
							402		



Comments

Relinquished by: (Signature)	Carmona	Date/Time	3-14-23 1330
Received by: (Signature)	[Signature]	Date/Time	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-25895-1

SDG Number: Eddy County, New Mexico

Login Number: 25895

List Source: Eurofins Midland

List Number: 1

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

Generated 12/14/2022 1:28:17 PM

JOB DESCRIPTION

Shell Federal #2 SWD
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-22219-1

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
12/14/2022 1:28:17 PM

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

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Laboratory Job ID: 880-22219-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-22219-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

HPLC/IC

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

Case Narrative

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-22219-1
SDG: Eddy County, New Mexico

Job ID: 880-22219-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-22219-1****Receipt**

The samples were received on 12/2/2022 10:32 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 0.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-22219-1), H-2 (0-0.5') (880-22219-2), H-3 (0-0.5') (880-22219-3) and H-4 (0-0.5') (880-22219-4).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: H-1 (0-0.5') (880-22219-1). 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 sample was outside control limits: (MB 880-41296/1-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

Method 300_ORGFM_28D: The laboratory control sample (LCS) associated with preparation batch 880-40975 and analytical batch 880-41275 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.

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-22219-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-22219-1

Date Collected: 12/01/22 00:00

Matrix: Solid

Date Received: 12/02/22 10:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:50	12/13/22 17:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:50	12/13/22 17:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:50	12/13/22 17:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/12/22 15:50	12/13/22 17:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:50	12/13/22 17:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/22 15:50	12/13/22 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	47	S1-	70 - 130	12/12/22 15:50	12/13/22 17:59	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/12/22 15:50	12/13/22 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			12/14/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/12/22 09:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/09/22 21:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/09/22 21:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/09/22 21:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	12/07/22 15:26	12/09/22 21:41	1
o-Terphenyl	113		70 - 130	12/07/22 15:26	12/09/22 21:41	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.8	*+	4.98		mg/Kg			12/09/22 15:40	1

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

Lab Sample ID: 880-22219-2

Date Collected: 12/01/22 00:00

Matrix: Solid

Date Received: 12/02/22 10:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:50	12/13/22 18:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:50	12/13/22 18:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:50	12/13/22 18:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/12/22 15:50	12/13/22 18:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:50	12/13/22 18:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/22 15:50	12/13/22 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/12/22 15:50	12/13/22 18:20	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/12/22 15:50	12/13/22 18:20	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-22219-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-22219-2

Date Collected: 12/01/22 00:00

Matrix: Solid

Date Received: 12/02/22 10:32

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/14/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/12/22 09:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/09/22 22:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/09/22 22:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/09/22 22:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				12/07/22 15:26	12/09/22 22:42	1
o-Terphenyl	116		70 - 130				12/07/22 15:26	12/09/22 22:42	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	326	+	25.0		mg/Kg			12/09/22 15:46	5

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

Lab Sample ID: 880-22219-3

Date Collected: 12/01/22 00:00

Matrix: Solid

Date Received: 12/02/22 10:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:50	12/13/22 18:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:50	12/13/22 18:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:50	12/13/22 18:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/12/22 15:50	12/13/22 18:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:50	12/13/22 18:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/12/22 15:50	12/13/22 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				12/12/22 15:50	12/13/22 18:41	1
1,4-Difluorobenzene (Surr)	103		70 - 130				12/12/22 15:50	12/13/22 18:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/14/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/12/22 09:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/09/22 23:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 15:26	12/09/22 23:02	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-22219-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-22219-3

Date Collected: 12/01/22 00:00

Matrix: Solid

Date Received: 12/02/22 10:32

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		12/07/22 15:26	12/09/22 23:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				12/07/22 15:26	12/09/22 23:02	1
o-Terphenyl	111		70 - 130				12/07/22 15:26	12/09/22 23:02	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	357	++	25.2		mg/Kg			12/09/22 15:52	5

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

Lab Sample ID: 880-22219-4

Date Collected: 12/01/22 00:00

Matrix: Solid

Date Received: 12/02/22 10:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:50	12/13/22 19:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:50	12/13/22 19:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:50	12/13/22 19:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/12/22 15:50	12/13/22 19:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/22 15:50	12/13/22 19:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/22 15:50	12/13/22 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				12/12/22 15:50	12/13/22 19:01	1
1,4-Difluorobenzene (Surr)	101		70 - 130				12/12/22 15:50	12/13/22 19:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/14/22 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/12/22 09:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/09/22 23:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/09/22 23:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/09/22 23:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				12/07/22 15:26	12/09/22 23:22	1
o-Terphenyl	112		70 - 130				12/07/22 15:26	12/09/22 23:22	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	281	++	24.8		mg/Kg			12/09/22 16:10	5

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-22219-1
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)
880-22219-1	H-1 (0-0.5')	47 S1-	95
880-22219-2	H-2 (0-0.5')	118	101
880-22219-3	H-3 (0-0.5')	124	103
880-22219-4	H-4 (0-0.5')	127	101
890-3613-A-1-G MS	Matrix Spike	104	98
890-3613-A-1-H MSD	Matrix Spike Duplicate	105	99
LCS 880-41668/1-A	Lab Control Sample	96	92
LCSD 880-41668/2-A	Lab Control Sample Dup	95	97
MB 880-41668/5-A	Method Blank	106	87
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)
880-22219-1	H-1 (0-0.5')	110	113
880-22219-1 MS	H-1 (0-0.5')	112	104
880-22219-1 MSD	H-1 (0-0.5')	101	93
880-22219-2	H-2 (0-0.5')	114	116
880-22219-3	H-3 (0-0.5')	112	111
880-22219-4	H-4 (0-0.5')	110	112
LCS 880-41296/2-A	Lab Control Sample	98	99
LCSD 880-41296/3-A	Lab Control Sample Dup	91	92
MB 880-41296/1-A	Method Blank	105	143 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-22219-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-41668/5-A

Matrix: Solid

Analysis Batch: 41701

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41668

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:50	12/13/22 11:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:50	12/13/22 11:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:50	12/13/22 11:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/12/22 15:50	12/13/22 11:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/22 15:50	12/13/22 11:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/12/22 15:50	12/13/22 11:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	12/12/22 15:50	12/13/22 11:45	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/12/22 15:50	12/13/22 11:45	1

Lab Sample ID: LCS 880-41668/1-A

Matrix: Solid

Analysis Batch: 41701

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41668

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1175		mg/Kg		118	70 - 130
Toluene	0.100	0.1084		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1053		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2247		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1096		mg/Kg		110	70 - 130

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

Lab Sample ID: LCSD 880-41668/2-A

Matrix: Solid

Analysis Batch: 41701

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41668

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1136		mg/Kg		114	70 - 130	3	35
Toluene	0.100	0.1036		mg/Kg		104	70 - 130	5	35
Ethylbenzene	0.100	0.09505		mg/Kg		95	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1989		mg/Kg		99	70 - 130	12	35
o-Xylene	0.100	0.09808		mg/Kg		98	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-3613-A-1-G MS

Matrix: Solid

Analysis Batch: 41701

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 41668

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.08393		mg/Kg		84	70 - 130
Toluene	<0.00201	U	0.0998	0.08250		mg/Kg		83	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-22219-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-3613-A-1-G MS

Matrix: Solid

Analysis Batch: 41701

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 41668

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0998	0.08222		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1739		mg/Kg		87	70 - 130
o-Xylene	<0.00201	U	0.0998	0.08792		mg/Kg		88	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-3613-A-1-H MSD

Matrix: Solid

Analysis Batch: 41701

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 41668

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.07966		mg/Kg		79	70 - 130	5	35
Toluene	<0.00201	U	0.100	0.07771		mg/Kg		78	70 - 130	6	35
Ethylbenzene	<0.00201	U	0.100	0.07671		mg/Kg		77	70 - 130	7	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1619		mg/Kg		81	70 - 130	7	35
o-Xylene	<0.00201	U	0.100	0.08296		mg/Kg		83	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-41296/1-A

Matrix: Solid

Analysis Batch: 41416

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41296

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/09/22 20:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/09/22 20:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 15:26	12/09/22 20:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	12/07/22 15:26	12/09/22 20:40	1
o-Terphenyl	143	S1+	70 - 130	12/07/22 15:26	12/09/22 20:40	1

Lab Sample ID: LCS 880-41296/2-A

Matrix: Solid

Analysis Batch: 41416

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	886.7		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	910.5		mg/Kg		91	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-22219-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-41296/2-A

Matrix: Solid

Analysis Batch: 41416

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41296

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-41296/3-A

Matrix: Solid

Analysis Batch: 41416

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41296

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	869.4		mg/Kg		87	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	862.9		mg/Kg		86	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 880-22219-1 MS

Matrix: Solid

Analysis Batch: 41416

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

Prep Type: Total/NA

Prep Batch: 41296

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	954.0		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	881.1		mg/Kg		88	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 880-22219-1 MSD

Matrix: Solid

Analysis Batch: 41416

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

Prep Type: Total/NA

Prep Batch: 41296

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	972.2		mg/Kg		95	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	801.1		mg/Kg		80	70 - 130	10	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	93		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-22219-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40975/1-A

Matrix: Solid

Analysis Batch: 41275

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/09/22 14:57	1

Lab Sample ID: LCS 880-40975/2-A

Matrix: Solid

Analysis Batch: 41275

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	266.3		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-40975/3-A

Matrix: Solid

Analysis Batch: 41275

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	285.0	*+	mg/Kg		114	90 - 110	7	20

Lab Sample ID: 880-22206-A-1-B MS

Matrix: Solid

Analysis Batch: 41275

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	639	*+	253	892.2		mg/Kg		100	90 - 110

Lab Sample ID: 880-22206-A-1-C MSD

Matrix: Solid

Analysis Batch: 41275

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	639	*+	253	882.2		mg/Kg		96	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-22219-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 41668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22219-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-22219-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-22219-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-22219-4	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-41668/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41668/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41668/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3613-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
890-3613-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 41701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22219-1	H-1 (0-0.5')	Total/NA	Solid	8021B	41668
880-22219-2	H-2 (0-0.5')	Total/NA	Solid	8021B	41668
880-22219-3	H-3 (0-0.5')	Total/NA	Solid	8021B	41668
880-22219-4	H-4 (0-0.5')	Total/NA	Solid	8021B	41668
MB 880-41668/5-A	Method Blank	Total/NA	Solid	8021B	41668
LCS 880-41668/1-A	Lab Control Sample	Total/NA	Solid	8021B	41668
LCSD 880-41668/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41668
890-3613-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	41668
890-3613-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	41668

Analysis Batch: 41802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22219-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-22219-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-22219-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-22219-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22219-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-22219-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-22219-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-22219-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-41296/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41296/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41296/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22219-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-22219-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22219-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	41296
880-22219-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	41296
880-22219-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	41296
880-22219-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	41296
MB 880-41296/1-A	Method Blank	Total/NA	Solid	8015B NM	41296
LCS 880-41296/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41296

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QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-22219-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 41416 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-41296/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41296
880-22219-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015B NM	41296
880-22219-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015B NM	41296

Analysis Batch: 41573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22219-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-22219-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-22219-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-22219-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 40975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22219-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-22219-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-22219-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-22219-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-40975/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40975/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40975/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22206-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-22206-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 41275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22219-1	H-1 (0-0.5')	Soluble	Solid	300.0	40975
880-22219-2	H-2 (0-0.5')	Soluble	Solid	300.0	40975
880-22219-3	H-3 (0-0.5')	Soluble	Solid	300.0	40975
880-22219-4	H-4 (0-0.5')	Soluble	Solid	300.0	40975
MB 880-40975/1-A	Method Blank	Soluble	Solid	300.0	40975
LCS 880-40975/2-A	Lab Control Sample	Soluble	Solid	300.0	40975
LCSD 880-40975/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40975
880-22206-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	40975
880-22206-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	40975

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-22219-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-22219-1

Date Collected: 12/01/22 00:00

Matrix: Solid

Date Received: 12/02/22 10:32

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	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 17:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41802	12/14/22 11:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			41573	12/12/22 09:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41296	12/07/22 15:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41416	12/09/22 21:41	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40975	12/03/22 16:41	SMC	EET MID
Soluble	Analysis	300.0		1			41275	12/09/22 15:40	CH	EET MID

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

Lab Sample ID: 880-22219-2

Date Collected: 12/01/22 00:00

Matrix: Solid

Date Received: 12/02/22 10:32

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	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 18:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41802	12/14/22 11:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			41573	12/12/22 09:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41296	12/07/22 15:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41416	12/09/22 22:42	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40975	12/03/22 16:41	SMC	EET MID
Soluble	Analysis	300.0		5			41275	12/09/22 15:46	CH	EET MID

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

Lab Sample ID: 880-22219-3

Date Collected: 12/01/22 00:00

Matrix: Solid

Date Received: 12/02/22 10:32

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	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 18:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41802	12/14/22 11:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			41573	12/12/22 09:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41296	12/07/22 15:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41416	12/09/22 23:02	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	40975	12/03/22 16:41	SMC	EET MID
Soluble	Analysis	300.0		5			41275	12/09/22 15:52	CH	EET MID

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

Lab Sample ID: 880-22219-4

Date Collected: 12/01/22 00:00

Matrix: Solid

Date Received: 12/02/22 10:32

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	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 19:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41802	12/14/22 11:05	SM	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-22219-1
SDG: Eddy County, New Mexico

Client Sample ID: H-4 (0-0.5')
Date Collected: 12/01/22 00:00
Date Received: 12/02/22 10:32

Lab Sample ID: 880-22219-4
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			41573	12/12/22 09:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41296	12/07/22 15:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41416	12/09/22 23:22	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40975	12/03/22 16:41	SMC	EET MID
Soluble	Analysis	300.0		5			41275	12/09/22 16:10	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-22219-1
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

Method Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-22219-1
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 #2 SWD

Job ID: 880-22219-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22219-1	H-1 (0-0.5')	Solid	12/01/22 00:00	12/02/22 10:32
880-22219-2	H-2 (0-0.5')	Solid	12/01/22 00:00	12/02/22 10:32
880-22219-3	H-3 (0-0.5')	Solid	12/01/22 00:00	12/02/22 10:32
880-22219-4	H-4 (0-0.5')	Solid	12/01/22 00:00	12/02/22 10:32

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Work Order No: 22219

Page 1 of 1

Project Manager: Clinton Merritt		Bill to: (if different)		Addison Gueller	
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: 432-813-9044		Email: addisong@forl.com			

Project Name: Shell Federal #2 SWD		Turn Around		Pres. Code	
Project Number: 445 1194		☒ Routine ☐ Rush			
Project Location: Eddy County, New Mexico		Due Date:			
Sampler's Name: CCM					
PO #:					

SAMPLE RECEIPT		Temp Blank		Yes No		Wet Ice		Yes No	
Received Intact:		Yes No		Thermometer ID		Correction Factor		-30	
Cooler Custody Seals:		Yes No		N/A		Temperature Reading		69	
Sample Custody Seals:		Yes No		N/A		Corrected Temperature		06	
Total Containers:									

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	Pre. Code
H-1 (0-0 5')	12.1.22		X		G	1	BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 300.0	
H-2 (0-0 5')	12.1.22		X		G	1		
H-3 (0-0 5')	12.1.22		X		G	1		
H-4 (0-0 5')	12.1.22		X		G	1		

ANALYSIS REQUEST	Preservative Codes	Sample Comments
	None NO	DI Water H ₂ O
	Cool Cool	MeOH Me
	HCL. HC	HNO ₃ HN
	H ₂ SO ₄ H ₂	NaOH Na
	H ₃ PO ₄ HP	
	NaHSO ₄ NABIS	
	Na ₂ S ₂ O ₃ NaSO ₃	
	Zn Acetate+NaOH Zn	
	NaOH+Ascorbic Acid SAPC	



880-22219 Chain of Custody

Comments:

Relinquished by (Signature) _____ Date/Time 12-2-22

Received by (Signature) _____ Date/Time 10:31

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-22219-1

SDG Number: Eddy County, New Mexico

Login Number: 22219

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: Mike Carmona
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701
Generated 5/5/2023 2:53:43 PM

JOB DESCRIPTION

Shell Federal #2 SWD

JOB NUMBER

880-27935-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
5/5/2023 2:53:43 PM

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

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Laboratory Job ID: 880-27935-1

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.

HPLC/IC

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

Glossary

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

Eurofins Midland

Case Narrative

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Job ID: 880-27935-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-27935-1****Receipt**

The samples were received on 5/4/2023 8:31 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.9°C

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-52509 and analytical batch 880-52565 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-10 (3.0') (880-27935-10), CS-12 (2') (880-27935-12), CS-13 (2') (880-27935-13), CS-14 (2') (880-27935-14), SW-1 (1.5') (880-27935-18), (890-4607-A-1-C) and (890-4607-A-1-B 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.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52567 and analytical batch 880-52587 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-12 (2') (880-27935-12), (LCS 880-52567/2-A) and (880-27935-A-1-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-4 (1.5') (880-27935-21), SW-5 (3') (880-27935-22), SW-6 (3') (880-27935-23), SW-7 (1') (880-27935-24), SW-8 (2') (880-27935-25), SW-9 (2') (880-27935-26), SW-10 (2') (880-27935-27), SW-11 (2') (880-27935-28), (LCS 880-52568/2-A), (LCSD 880-52568/3-A), (MB 880-52568/1-A) and (880-27935-A-21-C 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 for preparation batch 880-52570 and analytical batch 880-52637 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: SW-4 (1.5') (880-27935-21), SW-5 (3') (880-27935-22), SW-6 (3') (880-27935-23), SW-7 (1') (880-27935-24), SW-8 (2') (880-27935-25), SW-9 (2') (880-27935-26), SW-10 (2') (880-27935-27), SW-11 (2') (880-27935-28), (880-27932-A-1-A), (880-27932-A-1-B MS) and (880-27932-A-1-C MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52569 and 880-52569 and analytical batch 880-52639 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: CS-1 (1.5') (880-27935-1), CS-2 (1.5') (880-27935-2), CS-3 (1.5') (880-27935-3), CS-4 (1.5') (880-27935-4), CS-5 (1.5') (880-27935-5), CS-6 (1.5') (880-27935-6), CS-7 (1.5') (880-27935-7), CS-8 (1.5') (880-27935-8), CS-9 (3.0') (880-27935-9), CS-10 (3.0') (880-27935-10), (880-27935-A-1-F MS) and (880-27935-A-1-G MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52569 and 880-52569 and analytical batch 880-52639 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: CS-11 (2') (880-27935-11), CS-12 (2') (880-27935-12), CS-13 (2') (880-27935-13), CS-14 (2') (880-27935-14), CS-15 (2') (880-27935-15), CS-16 (2') (880-27935-16), CS-17 (2') (880-27935-17), SW-1 (1.5') (880-27935-18), SW-2 (1.5') (880-27935-19), SW-3 (1.5') (880-27935-20), (880-27935-A-11-C MS) and (880-27935-A-11-D MSD).

Case Narrative

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Job ID: 880-27935-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-1 (1.5')

Lab Sample ID: 880-27935-1

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 08:55	05/04/23 11:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/04/23 08:55	05/04/23 11:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/23 08:55	05/04/23 11:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/04/23 08:55	05/04/23 11:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/04/23 08:55	05/04/23 11:35	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/04/23 08:55	05/04/23 11:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	05/04/23 08:55	05/04/23 11:35	1
1,4-Difluorobenzene (Surr)	85		70 - 130	05/04/23 08:55	05/04/23 11:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/04/23 20:39	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			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 11:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		05/04/23 08:49	05/04/23 11:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 11:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	05/04/23 08:49	05/04/23 11:49	1
o-Terphenyl	80		70 - 130	05/04/23 08:49	05/04/23 11:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	283	F1	4.96		mg/Kg			05/04/23 17:27	1

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-27935-2

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 08:55	05/04/23 11:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/04/23 08:55	05/04/23 11:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/04/23 08:55	05/04/23 11:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/04/23 08:55	05/04/23 11:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/04/23 08:55	05/04/23 11:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/04/23 08:55	05/04/23 11:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	05/04/23 08:55	05/04/23 11:55	1
1,4-Difluorobenzene (Surr)	76		70 - 130	05/04/23 08:55	05/04/23 11:55	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-27935-2

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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			05/04/23 20:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	105		50.0		mg/Kg			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 13:04	1
Diesel Range Organics (Over C10-C28)	105		50.0		mg/Kg		05/04/23 08:49	05/04/23 13:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				05/04/23 08:49	05/04/23 13:04	1
o-Terphenyl	72		70 - 130				05/04/23 08:49	05/04/23 13:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	186		4.99		mg/Kg			05/04/23 18:44	1

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-27935-3

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/04/23 12:16	05/04/23 15:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/04/23 12:16	05/04/23 15:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/04/23 12:16	05/04/23 15:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/04/23 12:16	05/04/23 15:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/04/23 12:16	05/04/23 15:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/04/23 12:16	05/04/23 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				05/04/23 12:16	05/04/23 15:42	1
1,4-Difluorobenzene (Surr)	90		70 - 130				05/04/23 12:16	05/04/23 15:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/04/23 20:39	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			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 13:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 13:26	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-27935-3

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 08:49	05/04/23 13:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				05/04/23 08:49	05/04/23 13:26	1
o-Terphenyl	75		70 - 130				05/04/23 08:49	05/04/23 13:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		5.02		mg/Kg			05/04/23 18:49	1

Client Sample ID: CS-4 (1.5')

Lab Sample ID: 880-27935-4

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 12:16	05/04/23 16:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/04/23 12:16	05/04/23 16:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/04/23 12:16	05/04/23 16:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/04/23 12:16	05/04/23 16:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/04/23 12:16	05/04/23 16:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/04/23 12:16	05/04/23 16:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				05/04/23 12:16	05/04/23 16:45	1
1,4-Difluorobenzene (Surr)	78		70 - 130				05/04/23 12:16	05/04/23 16:45	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			05/04/23 20:39	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			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/04/23 08:49	05/04/23 13:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/04/23 08:49	05/04/23 13:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/04/23 08:49	05/04/23 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				05/04/23 08:49	05/04/23 13:48	1
o-Terphenyl	71		70 - 130				05/04/23 08:49	05/04/23 13:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	369		5.03		mg/Kg			05/04/23 18:54	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-5 (1.5')

Lab Sample ID: 880-27935-5

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 12:16	05/04/23 17:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/04/23 12:16	05/04/23 17:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/04/23 12:16	05/04/23 17:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/04/23 12:16	05/04/23 17:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/04/23 12:16	05/04/23 17:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/04/23 12:16	05/04/23 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	05/04/23 12:16	05/04/23 17:05	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/04/23 12:16	05/04/23 17:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/04/23 20:39	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			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 14:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 14:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	05/04/23 08:49	05/04/23 14:10	1
o-Terphenyl	75		70 - 130	05/04/23 08:49	05/04/23 14:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	266		4.98		mg/Kg			05/04/23 18:59	1

Client Sample ID: CS-6 (1.5')

Lab Sample ID: 880-27935-6

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 12:16	05/04/23 17:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/04/23 12:16	05/04/23 17:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/23 12:16	05/04/23 17:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/04/23 12:16	05/04/23 17:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/04/23 12:16	05/04/23 17:26	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/04/23 12:16	05/04/23 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	05/04/23 12:16	05/04/23 17:26	1
1,4-Difluorobenzene (Surr)	76		70 - 130	05/04/23 12:16	05/04/23 17:26	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-6 (1.5')

Lab Sample ID: 880-27935-6

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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			05/04/23 20:39	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			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/04/23 08:49	05/04/23 14:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/04/23 08:49	05/04/23 14:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/04/23 08:49	05/04/23 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				05/04/23 08:49	05/04/23 14:32	1
o-Terphenyl	71		70 - 130				05/04/23 08:49	05/04/23 14:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	321		4.99		mg/Kg			05/04/23 19:13	1

Client Sample ID: CS-7 (1.5')

Lab Sample ID: 880-27935-7

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/04/23 12:16	05/04/23 17:47	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/04/23 12:16	05/04/23 17:47	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/04/23 12:16	05/04/23 17:47	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/04/23 12:16	05/04/23 17:47	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/04/23 12:16	05/04/23 17:47	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/04/23 12:16	05/04/23 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				05/04/23 12:16	05/04/23 17:47	1
1,4-Difluorobenzene (Surr)	75		70 - 130				05/04/23 12:16	05/04/23 17:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/04/23 20:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	122		49.9		mg/Kg			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 14:54	1
Diesel Range Organics (Over C10-C28)	122		49.9		mg/Kg		05/04/23 08:49	05/04/23 14:54	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-7 (1.5')

Lab Sample ID: 880-27935-7

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 08:49	05/04/23 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				05/04/23 08:49	05/04/23 14:54	1
o-Terphenyl	76		70 - 130				05/04/23 08:49	05/04/23 14:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	223		4.99		mg/Kg			05/04/23 19:18	1

Client Sample ID: CS-8 (1.5')

Lab Sample ID: 880-27935-8

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 12:16	05/04/23 18:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/04/23 12:16	05/04/23 18:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/23 12:16	05/04/23 18:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/04/23 12:16	05/04/23 18:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/04/23 12:16	05/04/23 18:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/04/23 12:16	05/04/23 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				05/04/23 12:16	05/04/23 18:07	1
1,4-Difluorobenzene (Surr)	88		70 - 130				05/04/23 12:16	05/04/23 18:07	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			05/04/23 20:39	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			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 15:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 15:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 15:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				05/04/23 08:49	05/04/23 15:15	1
o-Terphenyl	76		70 - 130				05/04/23 08:49	05/04/23 15:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	193		5.00		mg/Kg			05/04/23 19:23	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-9 (3.0')

Lab Sample ID: 880-27935-9

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 12:16	05/04/23 18:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/04/23 12:16	05/04/23 18:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/04/23 12:16	05/04/23 18:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/04/23 12:16	05/04/23 18:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/04/23 12:16	05/04/23 18:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/04/23 12:16	05/04/23 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	05/04/23 12:16	05/04/23 18:28	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/04/23 12:16	05/04/23 18:28	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			05/04/23 20:39	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			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 15:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 15:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	05/04/23 08:49	05/04/23 15:37	1
o-Terphenyl	74		70 - 130	05/04/23 08:49	05/04/23 15:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	233		5.01		mg/Kg			05/04/23 19:28	1

Client Sample ID: CS-10 (3.0')

Lab Sample ID: 880-27935-10

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 08:55	05/04/23 12:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/04/23 08:55	05/04/23 12:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/04/23 08:55	05/04/23 12:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/04/23 08:55	05/04/23 12:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/04/23 08:55	05/04/23 12:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/04/23 08:55	05/04/23 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130	05/04/23 08:55	05/04/23 12:28	1
1,4-Difluorobenzene (Surr)	81		70 - 130	05/04/23 08:55	05/04/23 12:28	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-10 (3.0')

Lab Sample ID: 880-27935-10

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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			05/04/23 20:45	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			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 15:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 15:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				05/04/23 08:49	05/04/23 15:59	1
o-Terphenyl	75		70 - 130				05/04/23 08:49	05/04/23 15:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		5.04		mg/Kg			05/04/23 19:33	1

Client Sample ID: CS-11 (2')

Lab Sample ID: 880-27935-11

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 08:55	05/04/23 12:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/04/23 08:55	05/04/23 12:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/04/23 08:55	05/04/23 12:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/04/23 08:55	05/04/23 12:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/04/23 08:55	05/04/23 12:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/04/23 08:55	05/04/23 12:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				05/04/23 08:55	05/04/23 12:54	1
1,4-Difluorobenzene (Surr)	76		70 - 130				05/04/23 08:55	05/04/23 12:54	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			05/04/23 20:45	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			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/04/23 08:49	05/04/23 16:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/04/23 08:49	05/04/23 16:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-11 (2')

Lab Sample ID: 880-27935-11

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 08:49	05/04/23 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				05/04/23 08:49	05/04/23 16:56	1
o-Terphenyl	78		70 - 130				05/04/23 08:49	05/04/23 16:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	693	F1	4.98		mg/Kg			05/04/23 19:38	1

Client Sample ID: CS-12 (2')

Lab Sample ID: 880-27935-12

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 08:55	05/04/23 13:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/04/23 08:55	05/04/23 13:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/04/23 08:55	05/04/23 13:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/04/23 08:55	05/04/23 13:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/04/23 08:55	05/04/23 13:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/04/23 08:55	05/04/23 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				05/04/23 08:55	05/04/23 13:20	1
1,4-Difluorobenzene (Surr)	83		70 - 130				05/04/23 08:55	05/04/23 13:20	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			05/04/23 20:45	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			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 17:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 17:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				05/04/23 08:49	05/04/23 17:18	1
o-Terphenyl	66	S1-	70 - 130				05/04/23 08:49	05/04/23 17:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.3		5.02		mg/Kg			05/04/23 19:52	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-13 (2')

Lab Sample ID: 880-27935-13

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 08:55	05/04/23 13:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/04/23 08:55	05/04/23 13:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/04/23 08:55	05/04/23 13:46	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/04/23 08:55	05/04/23 13:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/04/23 08:55	05/04/23 13:46	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/04/23 08:55	05/04/23 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	05/04/23 08:55	05/04/23 13:46	1
1,4-Difluorobenzene (Surr)	87		70 - 130	05/04/23 08:55	05/04/23 13:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/04/23 20:45	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			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/04/23 08:49	05/04/23 17:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/04/23 08:49	05/04/23 17:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/04/23 08:49	05/04/23 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	05/04/23 08:49	05/04/23 17:39	1
o-Terphenyl	73		70 - 130	05/04/23 08:49	05/04/23 17:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	171		4.95		mg/Kg			05/04/23 19:57	1

Client Sample ID: CS-14 (2')

Lab Sample ID: 880-27935-14

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 08:55	05/04/23 14:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/04/23 08:55	05/04/23 14:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/23 08:55	05/04/23 14:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/04/23 08:55	05/04/23 14:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/04/23 08:55	05/04/23 14:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/04/23 08:55	05/04/23 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130	05/04/23 08:55	05/04/23 14:12	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/04/23 08:55	05/04/23 14:12	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-14 (2')

Lab Sample ID: 880-27935-14

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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			05/04/23 20:45	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			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 18:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 18:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/04/23 08:49	05/04/23 18:00	1
o-Terphenyl	79		70 - 130				05/04/23 08:49	05/04/23 18:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	357		4.96		mg/Kg			05/04/23 20:11	1

Client Sample ID: CS-15 (2')

Lab Sample ID: 880-27935-15

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 08:55	05/04/23 14:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/04/23 08:55	05/04/23 14:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/23 08:55	05/04/23 14:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/04/23 08:55	05/04/23 14:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/04/23 08:55	05/04/23 14:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/04/23 08:55	05/04/23 14:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				05/04/23 08:55	05/04/23 14:38	1
1,4-Difluorobenzene (Surr)	89		70 - 130				05/04/23 08:55	05/04/23 14:38	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			05/04/23 20:45	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			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/04/23 08:49	05/04/23 18:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/04/23 08:49	05/04/23 18:22	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-15 (2')

Lab Sample ID: 880-27935-15

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 08:49	05/04/23 18:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				05/04/23 08:49	05/04/23 18:22	1
o-Terphenyl	75		70 - 130				05/04/23 08:49	05/04/23 18:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	186		5.00		mg/Kg			05/04/23 20:16	1

Client Sample ID: CS-16 (2')

Lab Sample ID: 880-27935-16

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 08:55	05/04/23 15:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/04/23 08:55	05/04/23 15:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/23 08:55	05/04/23 15:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/04/23 08:55	05/04/23 15:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/04/23 08:55	05/04/23 15:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/04/23 08:55	05/04/23 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130				05/04/23 08:55	05/04/23 15:04	1
1,4-Difluorobenzene (Surr)	88		70 - 130				05/04/23 08:55	05/04/23 15:04	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			05/04/23 20:45	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			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 18:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 18:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 18:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				05/04/23 08:49	05/04/23 18:44	1
o-Terphenyl	79		70 - 130				05/04/23 08:49	05/04/23 18:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	168		5.04		mg/Kg			05/04/23 20:40	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-17 (2')

Lab Sample ID: 880-27935-17

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/04/23 08:55	05/04/23 15:30	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/04/23 08:55	05/04/23 15:30	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/04/23 08:55	05/04/23 15:30	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/04/23 08:55	05/04/23 15:30	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/04/23 08:55	05/04/23 15:30	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/04/23 08:55	05/04/23 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	05/04/23 08:55	05/04/23 15:30	1
1,4-Difluorobenzene (Surr)	85		70 - 130	05/04/23 08:55	05/04/23 15:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/04/23 20:45	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			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 19:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 19:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	05/04/23 08:49	05/04/23 19:05	1
o-Terphenyl	83		70 - 130	05/04/23 08:49	05/04/23 19:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	510		5.05		mg/Kg			05/04/23 20:21	1

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-27935-18

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 08:55	05/04/23 16:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/04/23 08:55	05/04/23 16:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/23 08:55	05/04/23 16:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/04/23 08:55	05/04/23 16:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/04/23 08:55	05/04/23 16:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/04/23 08:55	05/04/23 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130	05/04/23 08:55	05/04/23 16:42	1
1,4-Difluorobenzene (Surr)	93		70 - 130	05/04/23 08:55	05/04/23 16:42	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-27935-18

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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			05/04/23 20:45	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			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 19:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 19:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				05/04/23 08:49	05/04/23 19:26	1
o-Terphenyl	76		70 - 130				05/04/23 08:49	05/04/23 19:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	406		4.99		mg/Kg			05/04/23 20:26	1

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 880-27935-19

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/04/23 10:20	05/04/23 15:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/04/23 10:20	05/04/23 15:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/04/23 10:20	05/04/23 15:39	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/04/23 10:20	05/04/23 15:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/04/23 10:20	05/04/23 15:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/04/23 10:20	05/04/23 15:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				05/04/23 10:20	05/04/23 15:39	1
1,4-Difluorobenzene (Surr)	95		70 - 130				05/04/23 10:20	05/04/23 15:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/04/23 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 19:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/04/23 08:49	05/04/23 19:47	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 880-27935-19

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 08:49	05/04/23 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				05/04/23 08:49	05/04/23 19:47	1
o-Terphenyl	78		70 - 130				05/04/23 08:49	05/04/23 19:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		4.97		mg/Kg			05/04/23 20:31	1

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 880-27935-20

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 10:20	05/04/23 16:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/04/23 10:20	05/04/23 16:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/04/23 10:20	05/04/23 16:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/04/23 10:20	05/04/23 16:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/04/23 10:20	05/04/23 16:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/04/23 10:20	05/04/23 16:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				05/04/23 10:20	05/04/23 16:44	1
1,4-Difluorobenzene (Surr)	104		70 - 130				05/04/23 10:20	05/04/23 16:44	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			05/04/23 20:43	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			05/04/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 20:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 20:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 20:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				05/04/23 08:49	05/04/23 20:09	1
o-Terphenyl	76		70 - 130				05/04/23 08:49	05/04/23 20:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178		4.96		mg/Kg			05/04/23 20:36	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: SW-4 (1.5')

Lab Sample ID: 880-27935-21

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 10:20	05/04/23 17:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/04/23 10:20	05/04/23 17:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/04/23 10:20	05/04/23 17:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/04/23 10:20	05/04/23 17:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/04/23 10:20	05/04/23 17:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/04/23 10:20	05/04/23 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	05/04/23 10:20	05/04/23 17:04	1
1,4-Difluorobenzene (Surr)	108		70 - 130	05/04/23 10:20	05/04/23 17:04	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			05/04/23 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/04/23 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	49.9		mg/Kg		05/04/23 08:54	05/04/23 11:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/04/23 08:54	05/04/23 11:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/04/23 08:54	05/04/23 11:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	05/04/23 08:54	05/04/23 11:49	1
o-Terphenyl	146	S1+	70 - 130	05/04/23 08:54	05/04/23 11:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	313		4.98		mg/Kg			05/04/23 17:29	1

Client Sample ID: SW-5 (3')

Lab Sample ID: 880-27935-22

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 10:20	05/04/23 17:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/04/23 10:20	05/04/23 17:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/04/23 10:20	05/04/23 17:24	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/04/23 10:20	05/04/23 17:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/04/23 10:20	05/04/23 17:24	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/04/23 10:20	05/04/23 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	05/04/23 10:20	05/04/23 17:24	1
1,4-Difluorobenzene (Surr)	110		70 - 130	05/04/23 10:20	05/04/23 17:24	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: SW-5 (3')

Lab Sample ID: 880-27935-22

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/04/23 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/04/23 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/04/23 08:54	05/04/23 13:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/04/23 08:54	05/04/23 13:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/04/23 08:54	05/04/23 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				05/04/23 08:54	05/04/23 13:04	1
o-Terphenyl	155	S1+	70 - 130				05/04/23 08:54	05/04/23 13:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		5.04		mg/Kg			05/04/23 17:34	1

Client Sample ID: SW-6 (3')

Lab Sample ID: 880-27935-23

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 10:20	05/04/23 17:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/04/23 10:20	05/04/23 17:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/04/23 10:20	05/04/23 17:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/04/23 10:20	05/04/23 17:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/04/23 10:20	05/04/23 17:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/04/23 10:20	05/04/23 17:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				05/04/23 10:20	05/04/23 17:45	1
1,4-Difluorobenzene (Surr)	109		70 - 130				05/04/23 10:20	05/04/23 17:45	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			05/04/23 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/04/23 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/04/23 08:54	05/04/23 13:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/04/23 08:54	05/04/23 13:26	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: SW-6 (3')

Lab Sample ID: 880-27935-23

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 08:54	05/04/23 13:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				05/04/23 08:54	05/04/23 13:26	1
o-Terphenyl	127		70 - 130				05/04/23 08:54	05/04/23 13:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.4		4.99		mg/Kg			05/04/23 17:39	1

Client Sample ID: SW-7 (1')

Lab Sample ID: 880-27935-24

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 10:20	05/04/23 18:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/04/23 10:20	05/04/23 18:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/23 10:20	05/04/23 18:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/04/23 10:20	05/04/23 18:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/04/23 10:20	05/04/23 18:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/04/23 10:20	05/04/23 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				05/04/23 10:20	05/04/23 18:05	1
1,4-Difluorobenzene (Surr)	110		70 - 130				05/04/23 10:20	05/04/23 18:05	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			05/04/23 20:43	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			05/04/23 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/04/23 08:54	05/04/23 13:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/04/23 08:54	05/04/23 13:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/04/23 08:54	05/04/23 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				05/04/23 08:54	05/04/23 13:48	1
o-Terphenyl	148	S1+	70 - 130				05/04/23 08:54	05/04/23 13:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	513		5.00		mg/Kg			05/04/23 17:45	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: SW-8 (2')

Lab Sample ID: 880-27935-25

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 10:20	05/04/23 18:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/04/23 10:20	05/04/23 18:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/04/23 10:20	05/04/23 18:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/04/23 10:20	05/04/23 18:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/04/23 10:20	05/04/23 18:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/04/23 10:20	05/04/23 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	05/04/23 10:20	05/04/23 18:26	1
1,4-Difluorobenzene (Surr)	104		70 - 130	05/04/23 10:20	05/04/23 18:26	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			05/04/23 20:43	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			05/04/23 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/04/23 08:54	05/04/23 14:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/04/23 08:54	05/04/23 14:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/04/23 08:54	05/04/23 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	05/04/23 08:54	05/04/23 14:10	1
o-Terphenyl	134	S1+	70 - 130	05/04/23 08:54	05/04/23 14:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	503		4.95		mg/Kg			05/04/23 18:01	1

Client Sample ID: SW-9 (2')

Lab Sample ID: 880-27935-26

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 10:20	05/04/23 18:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/04/23 10:20	05/04/23 18:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/04/23 10:20	05/04/23 18:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/04/23 10:20	05/04/23 18:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/04/23 10:20	05/04/23 18:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/04/23 10:20	05/04/23 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/04/23 10:20	05/04/23 18:46	1
1,4-Difluorobenzene (Surr)	101		70 - 130	05/04/23 10:20	05/04/23 18:46	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: SW-9 (2')

Lab Sample ID: 880-27935-26

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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			05/04/23 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/04/23 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/04/23 08:54	05/04/23 14:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/04/23 08:54	05/04/23 14:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/04/23 08:54	05/04/23 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				05/04/23 08:54	05/04/23 14:32	1
o-Terphenyl	133	S1+	70 - 130				05/04/23 08:54	05/04/23 14:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		5.04		mg/Kg			05/04/23 18:38	1

Client Sample ID: SW-10 (2')

Lab Sample ID: 880-27935-27

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 10:20	05/04/23 19:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/04/23 10:20	05/04/23 19:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/04/23 10:20	05/04/23 19:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/04/23 10:20	05/04/23 19:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/04/23 10:20	05/04/23 19:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/04/23 10:20	05/04/23 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				05/04/23 10:20	05/04/23 19:06	1
1,4-Difluorobenzene (Surr)	110		70 - 130				05/04/23 10:20	05/04/23 19:06	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			05/04/23 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/04/23 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/04/23 08:54	05/04/23 14:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/04/23 08:54	05/04/23 14:54	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: SW-10 (2')

Lab Sample ID: 880-27935-27

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 08:54	05/04/23 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				05/04/23 08:54	05/04/23 14:54	1
o-Terphenyl	132	S1+	70 - 130				05/04/23 08:54	05/04/23 14:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	309		5.01		mg/Kg			05/04/23 18:44	1

Client Sample ID: SW-11 (2')

Lab Sample ID: 880-27935-28

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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		05/04/23 10:20	05/04/23 19:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/04/23 10:20	05/04/23 19:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/23 10:20	05/04/23 19:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/04/23 10:20	05/04/23 19:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/04/23 10:20	05/04/23 19:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/04/23 10:20	05/04/23 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				05/04/23 10:20	05/04/23 19:27	1
1,4-Difluorobenzene (Surr)	101		70 - 130				05/04/23 10:20	05/04/23 19:27	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			05/04/23 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/04/23 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/04/23 08:54	05/04/23 15:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/04/23 08:54	05/04/23 15:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/04/23 08:54	05/04/23 15:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				05/04/23 08:54	05/04/23 15:15	1
o-Terphenyl	139	S1+	70 - 130				05/04/23 08:54	05/04/23 15:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	310		4.99		mg/Kg			05/04/23 18:49	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

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)
880-27935-1	CS-1 (1.5')	104	85
880-27935-2	CS-2 (1.5')	90	76
880-27935-3	CS-3 (1.5')	79	90
880-27935-4	CS-4 (1.5')	94	78
880-27935-5	CS-5 (1.5')	83	94
880-27935-6	CS-6 (1.5')	84	76
880-27935-7	CS-7 (1.5')	101	75
880-27935-8	CS-8 (1.5')	85	88
880-27935-9	CS-9 (3.0')	87	95
880-27935-10	CS-10 (3.0')	144 S1+	81
880-27935-11	CS-11 (2')	128	76
880-27935-12	CS-12 (2')	139 S1+	83
880-27935-13	CS-13 (2')	147 S1+	87
880-27935-14	CS-14 (2')	154 S1+	90
880-27935-15	CS-15 (2')	132 S1+	89
880-27935-16	CS-16 (2')	145 S1+	88
880-27935-17	CS-17 (2')	123	85
880-27935-18	SW-1 (1.5')	154 S1+	93
880-27935-19	SW-2 (1.5')	88	95
880-27935-19 MS	SW-2 (1.5')	97	103
880-27935-19 MSD	SW-2 (1.5')	97	103
880-27935-20	SW-3 (1.5')	102	104
880-27935-21	SW-4 (1.5')	99	108
880-27935-22	SW-5 (3')	100	110
880-27935-23	SW-6 (3')	108	109
880-27935-24	SW-7 (1')	113	110
880-27935-25	SW-8 (2')	109	104
880-27935-26	SW-9 (2')	107	101
880-27935-27	SW-10 (2')	110	110
880-27935-28	SW-11 (2')	103	101
890-4605-A-1-B MS	Matrix Spike	118	104
890-4605-A-1-C MSD	Matrix Spike Duplicate	115	104
890-4607-A-1-A MS	Matrix Spike	127	86
890-4607-A-1-B MSD	Matrix Spike Duplicate	141 S1+	107
LCS 880-52509/1-A	Lab Control Sample	106	105
LCS 880-52516/1-A	Lab Control Sample	119	84
LCS 880-52593/1-A	Lab Control Sample	103	106
LCSD 880-52509/2-A	Lab Control Sample Dup	113	103
LCSD 880-52516/2-A	Lab Control Sample Dup	108	81
LCSD 880-52593/2-A	Lab Control Sample Dup	92	107
MB 880-52509/5-A	Method Blank	68 S1-	93
MB 880-52516/5-A	Method Blank	76	81
MB 880-52593/5-A	Method Blank	97	114

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-27935-1

Project/Site: Shell Federal #2 SWD

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)
880-27935-1	CS-1 (1.5')	102	80
880-27935-1 MS	CS-1 (1.5')	97	70
880-27935-1 MSD	CS-1 (1.5')	96	69 S1-
880-27935-2	CS-2 (1.5')	95	72
880-27935-3	CS-3 (1.5')	97	75
880-27935-4	CS-4 (1.5')	93	71
880-27935-5	CS-5 (1.5')	97	75
880-27935-6	CS-6 (1.5')	92	71
880-27935-7	CS-7 (1.5')	99	76
880-27935-8	CS-8 (1.5')	98	76
880-27935-9	CS-9 (3.0')	96	74
880-27935-10	CS-10 (3.0')	97	75
880-27935-11	CS-11 (2')	101	78
880-27935-12	CS-12 (2')	87	66 S1-
880-27935-13	CS-13 (2')	95	73
880-27935-14	CS-14 (2')	102	79
880-27935-15	CS-15 (2')	97	75
880-27935-16	CS-16 (2')	103	79
880-27935-17	CS-17 (2')	107	83
880-27935-18	SW-1 (1.5')	99	76
880-27935-19	SW-2 (1.5')	101	78
880-27935-20	SW-3 (1.5')	99	76
880-27935-21	SW-4 (1.5')	118	146 S1+
880-27935-21 MS	SW-4 (1.5')	114	125
880-27935-21 MSD	SW-4 (1.5')	128	137 S1+
880-27935-22	SW-5 (3')	139 S1+	155 S1+
880-27935-23	SW-6 (3')	114	127
880-27935-24	SW-7 (1')	131 S1+	148 S1+
880-27935-25	SW-8 (2')	116	134 S1+
880-27935-26	SW-9 (2')	116	133 S1+
880-27935-27	SW-10 (2')	116	132 S1+
880-27935-28	SW-11 (2')	121	139 S1+
LCS 880-52567/2-A	Lab Control Sample	89	67 S1-
LCS 880-52568/2-A	Lab Control Sample	124	144 S1+
LCSD 880-52567/3-A	Lab Control Sample Dup	93	71
LCSD 880-52568/3-A	Lab Control Sample Dup	115	135 S1+
MB 880-52567/1-A	Method Blank	109	94
MB 880-52568/1-A	Method Blank	161 S1+	196 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-52509/5-A

Matrix: Solid

Analysis Batch: 52565

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52509

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/03/23 12:55	05/04/23 10:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/03/23 12:55	05/04/23 10:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/03/23 12:55	05/04/23 10:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/03/23 12:55	05/04/23 10:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/03/23 12:55	05/04/23 10:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/03/23 12:55	05/04/23 10:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	05/03/23 12:55	05/04/23 10:53	1
1,4-Difluorobenzene (Surr)	93		70 - 130	05/03/23 12:55	05/04/23 10:53	1

Lab Sample ID: LCS 880-52509/1-A

Matrix: Solid

Analysis Batch: 52565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1220		mg/Kg		122	70 - 130
Toluene	0.100	0.1064		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1128		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2360		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1159		mg/Kg		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-52509/2-A

Matrix: Solid

Analysis Batch: 52565

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52509

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1238		mg/Kg		124	70 - 130	1	35
Toluene	0.100	0.1120		mg/Kg		112	70 - 130	5	35
Ethylbenzene	0.100	0.1218		mg/Kg		122	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2494		mg/Kg		125	70 - 130	6	35
o-Xylene	0.100	0.1222		mg/Kg		122	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-4605-A-1-B MS

Matrix: Solid

Analysis Batch: 52565

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 52509

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09291		mg/Kg		93	70 - 130
Toluene	<0.00201	U	0.100	0.09648		mg/Kg		96	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

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

Lab Sample ID: 890-4605-A-1-B MS

Matrix: Solid

Analysis Batch: 52565

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 52509

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.1113		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2287		mg/Kg		114	70 - 130
o-Xylene	<0.00201	U	0.100	0.1147		mg/Kg		114	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-4605-A-1-C MSD

Matrix: Solid

Analysis Batch: 52565

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 52509

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.08944		mg/Kg		90	70 - 130	4	35
Toluene	<0.00201	U	0.0996	0.08972		mg/Kg		90	70 - 130	7	35
Ethylbenzene	<0.00201	U	0.0996	0.1041		mg/Kg		104	70 - 130	7	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.2096		mg/Kg		105	70 - 130	9	35
o-Xylene	<0.00201	U	0.0996	0.1055		mg/Kg		106	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-52516/5-A

Matrix: Solid

Analysis Batch: 52564

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/03/23 13:19	05/04/23 11:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/03/23 13:19	05/04/23 11:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/03/23 13:19	05/04/23 11:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/03/23 13:19	05/04/23 11:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/03/23 13:19	05/04/23 11:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/03/23 13:19	05/04/23 11:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	05/03/23 13:19	05/04/23 11:36	1
1,4-Difluorobenzene (Surr)	81		70 - 130	05/03/23 13:19	05/04/23 11:36	1

Lab Sample ID: LCS 880-52516/1-A

Matrix: Solid

Analysis Batch: 52564

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1166		mg/Kg		117	70 - 130
Toluene	0.100	0.1202		mg/Kg		120	70 - 130
Ethylbenzene	0.100	0.1059		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2172		mg/Kg		109	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

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

Lab Sample ID: LCS 880-52516/1-A

Matrix: Solid

Analysis Batch: 52564

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1056		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: LCSD 880-52516/2-A

Matrix: Solid

Analysis Batch: 52564

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52516

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1164		mg/Kg		116	70 - 130	0	35
Toluene	0.100	0.1190		mg/Kg		119	70 - 130	1	35
Ethylbenzene	0.100	0.1041		mg/Kg		104	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2135		mg/Kg		107	70 - 130	2	35
o-Xylene	0.100	0.1027		mg/Kg		103	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

Lab Sample ID: 890-4607-A-1-A MS

Matrix: Solid

Analysis Batch: 52564

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 52516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.1013		mg/Kg		101	70 - 130
Toluene	<0.00200	U	0.0998	0.1090		mg/Kg		109	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.1013		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2042		mg/Kg		102	70 - 130
o-Xylene	<0.00200	U	0.0998	0.09984		mg/Kg		100	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 890-4607-A-1-B MSD

Matrix: Solid

Analysis Batch: 52564

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 52516

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.1166		mg/Kg		118	70 - 130	14	35
Toluene	<0.00200	U	0.0990	0.1199		mg/Kg		121	70 - 130	9	35
Ethylbenzene	<0.00200	U	0.0990	0.1133		mg/Kg		114	70 - 130	11	35
m-Xylene & p-Xylene	<0.00399	U	0.198	0.2307		mg/Kg		116	70 - 130	12	35
o-Xylene	<0.00200	U	0.0990	0.1129		mg/Kg		114	70 - 130	12	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

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

Lab Sample ID: 890-4607-A-1-B MSD

Matrix: Solid

Analysis Batch: 52564

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 52516

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-52593/5-A

Matrix: Solid

Analysis Batch: 52566

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52593

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/04/23 10:20	05/04/23 15:10	1	
Toluene	<0.00200	U	0.00200		mg/Kg		05/04/23 10:20	05/04/23 15:10	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/23 10:20	05/04/23 15:10	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/04/23 10:20	05/04/23 15:10	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/04/23 10:20	05/04/23 15:10	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/04/23 10:20	05/04/23 15:10	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				05/04/23 10:20	05/04/23 15:10	1	
1,4-Difluorobenzene (Surr)	114		70 - 130				05/04/23 10:20	05/04/23 15:10	1	

Lab Sample ID: LCS 880-52593/1-A

Matrix: Solid

Analysis Batch: 52566

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52593

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.1301		mg/Kg		130	70 - 130			
Toluene	0.100	0.1241		mg/Kg		124	70 - 130			
Ethylbenzene	0.100	0.09890		mg/Kg		99	70 - 130			
m-Xylene & p-Xylene	0.200	0.2038		mg/Kg		102	70 - 130			
o-Xylene	0.100	0.09941		mg/Kg		99	70 - 130			

	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	103		70 - 130							
1,4-Difluorobenzene (Surr)	106		70 - 130							

Lab Sample ID: LCSD 880-52593/2-A

Matrix: Solid

Analysis Batch: 52566

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52593

	Spike	LCSD	LCSD					%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Benzene	0.100	0.1238		mg/Kg		124	70 - 130	5	35		
Toluene	0.100	0.1153		mg/Kg		115	70 - 130	7	35		
Ethylbenzene	0.100	0.08851		mg/Kg		89	70 - 130	11	35		
m-Xylene & p-Xylene	0.200	0.1876		mg/Kg		94	70 - 130	8	35		
o-Xylene	0.100	0.08910		mg/Kg		89	70 - 130	11	35		

	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	92		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

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

Lab Sample ID: LCSD 880-52593/2-A

Matrix: Solid

Analysis Batch: 52566

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52593

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

Lab Sample ID: 880-27935-19 MS

Matrix: Solid

Analysis Batch: 52566

Client Sample ID: SW-2 (1.5')

Prep Type: Total/NA

Prep Batch: 52593

	Sample	Sample	Spike	MS	MS			%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00202	U	0.101	0.08955		mg/Kg		89	70 - 130
Toluene	<0.00202	U	0.101	0.09108		mg/Kg		90	70 - 130
Ethylbenzene	<0.00202	U	0.101	0.07567		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.202	0.1579		mg/Kg		78	70 - 130
o-Xylene	<0.00202	U	0.101	0.07792		mg/Kg		77	70 - 130

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

Lab Sample ID: 880-27935-19 MSD

Matrix: Solid

Analysis Batch: 52566

Client Sample ID: SW-2 (1.5')

Prep Type: Total/NA

Prep Batch: 52593

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0996	0.08819		mg/Kg		89	70 - 130	2	35
Toluene	<0.00202	U	0.0996	0.08938		mg/Kg		90	70 - 130	2	35
Ethylbenzene	<0.00202	U	0.0996	0.07219		mg/Kg		72	70 - 130	5	35
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1546		mg/Kg		78	70 - 130	2	35
o-Xylene	<0.00202	U	0.0996	0.07654		mg/Kg		77	70 - 130	2	35

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

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

Lab Sample ID: MB 880-52567/1-A

Matrix: Solid

Analysis Batch: 52587

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52567

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 08:19		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 08:19		1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/04/23 08:49	05/04/23 08:19		1

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
1-Chlorooctane	109		70 - 130	05/04/23 08:49	05/04/23 08:19		1			
o-Terphenyl	94		70 - 130	05/04/23 08:49	05/04/23 08:19		1			

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QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

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

Lab Sample ID: LCS 880-52567/2-A

Matrix: Solid

Analysis Batch: 52587

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52567

Analyte			Spike	LCS	LCS			%Rec		
			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	1021		mg/Kg		102	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	913.9		mg/Kg		91	70 - 130	
		LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	89		70 - 130							
o-Terphenyl	67	S1-	70 - 130							

Lab Sample ID: LCSD 880-52567/3-A

Matrix: Solid

Analysis Batch: 52587

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52567

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	968.5		mg/Kg		97	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	926.0		mg/Kg		93	70 - 130	1	20
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	93		70 - 130								
o-Terphenyl	71		70 - 130								

Lab Sample ID: 880-27935-1 MS

Matrix: Solid

Analysis Batch: 52587

Client Sample ID: CS-1 (1.5')

Prep Type: Total/NA

Prep Batch: 52567

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	841.3		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	675.0	F1	mg/Kg		64	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	70		70 - 130								

Lab Sample ID: 880-27935-1 MSD

Matrix: Solid

Analysis Batch: 52587

Client Sample ID: CS-1 (1.5')

Prep Type: Total/NA

Prep Batch: 52567

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	858.0		mg/Kg		86	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	668.7	F1	mg/Kg		63	70 - 130	1	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	96		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

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

Lab Sample ID: 880-27935-1 MSD

Matrix: Solid

Analysis Batch: 52587

Client Sample ID: CS-1 (1.5')

Prep Type: Total/NA

Prep Batch: 52567

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	69	S1-	70 - 130

Lab Sample ID: MB 880-52568/1-A

Matrix: Solid

Analysis Batch: 52589

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52568

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/04/23 08:54	05/04/23 08:19	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/04/23 08:54	05/04/23 08:19	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/04/23 08:54	05/04/23 08:19	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	161	S1+	70 - 130				05/04/23 08:54	05/04/23 08:19	1	
<i>o</i> -Terphenyl	196	S1+	70 - 130				05/04/23 08:54	05/04/23 08:19	1	

Lab Sample ID: LCS 880-52568/2-A

Matrix: Solid

Analysis Batch: 52589

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52568

		Spike	LCS	LCS				%Rec		
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10		1000	1107		mg/Kg		111	70 - 130		
Diesel Range Organics (Over C10-C28)		1000	1116		mg/Kg		112	70 - 130		
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	124		70 - 130							
<i>o</i> -Terphenyl	144	S1+	70 - 130							

Lab Sample ID: LCSD 880-52568/3-A

Matrix: Solid

Analysis Batch: 52589

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52568

		Spike	LCSD	LCSD				%Rec		RPD	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10		1000	1167		mg/Kg		117	70 - 130	5	20	
Diesel Range Organics (Over C10-C28)		1000	992.3		mg/Kg		99	70 - 130	12	20	
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	115		70 - 130								
<i>o</i> -Terphenyl	135	S1+	70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

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

Lab Sample ID: 880-27935-21 MS

Matrix: Solid

Analysis Batch: 52589

Client Sample ID: SW-4 (1.5')

Prep Type: Total/NA

Prep Batch: 52568

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	1000	908.6		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1002		mg/Kg		97	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	114		70 - 130						
o-Terphenyl	125		70 - 130						

Lab Sample ID: 880-27935-21 MSD

Matrix: Solid

Analysis Batch: 52589

Client Sample ID: SW-4 (1.5')

Prep Type: Total/NA

Prep Batch: 52568

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	998	1216	F2	mg/Kg		120	70 - 130	29	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1117		mg/Kg		109	70 - 130	11	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	128		70 - 130								
o-Terphenyl	137	S1+	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-52570/1-A

Matrix: Solid

Analysis Batch: 52637

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			05/04/23 15:57	1

Lab Sample ID: LCS 880-52570/2-A

Matrix: Solid

Analysis Batch: 52637

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	227.4		mg/Kg		91	90 - 110

Lab Sample ID: LCSD 880-52570/3-A

Matrix: Solid

Analysis Batch: 52637

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	228.3		mg/Kg		91	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-27932-A-1-B MS

Matrix: Solid

Analysis Batch: 52637

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	522	F1	251	707.4	F1	mg/Kg		74	90 - 110

Lab Sample ID: 880-27932-A-1-C MSD

Matrix: Solid

Analysis Batch: 52637

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	522	F1	251	706.0	F1	mg/Kg		73	90 - 110	0	20

Lab Sample ID: MB 880-52569/1-A

Matrix: Solid

Analysis Batch: 52639

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			05/04/23 17:12	1

Lab Sample ID: LCS 880-52569/2-A

Matrix: Solid

Analysis Batch: 52639

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	256.8		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-52569/3-A

Matrix: Solid

Analysis Batch: 52639

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	251.3		mg/Kg		101	90 - 110	2	20

Lab Sample ID: 880-27935-1 MS

Matrix: Solid

Analysis Batch: 52639

Client Sample ID: CS-1 (1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	283	F1	248	471.6	F1	mg/Kg		76	90 - 110

Lab Sample ID: 880-27935-1 MSD

Matrix: Solid

Analysis Batch: 52639

Client Sample ID: CS-1 (1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	283	F1	248	479.5	F1	mg/Kg		79	90 - 110	2	20

Lab Sample ID: 880-27935-11 MS

Matrix: Solid

Analysis Batch: 52639

Client Sample ID: CS-11 (2')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	693	F1	249	875.4	F1	mg/Kg		73	90 - 110

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QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-27935-11 MSD					Client Sample ID: CS-11 (2')							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 52639												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	693	F1	249	870.0	F1	mg/Kg		71	90 - 110	1	20	

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

GC VOA

Prep Batch: 52509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-1	CS-1 (1.5')	Total/NA	Solid	5035	
880-27935-2	CS-2 (1.5')	Total/NA	Solid	5035	
880-27935-3	CS-3 (1.5')	Total/NA	Solid	5035	
880-27935-4	CS-4 (1.5')	Total/NA	Solid	5035	
880-27935-5	CS-5 (1.5')	Total/NA	Solid	5035	
880-27935-6	CS-6 (1.5')	Total/NA	Solid	5035	
880-27935-7	CS-7 (1.5')	Total/NA	Solid	5035	
880-27935-8	CS-8 (1.5')	Total/NA	Solid	5035	
880-27935-9	CS-9 (3.0')	Total/NA	Solid	5035	
MB 880-52509/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52509/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-52509/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4605-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-4605-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 52516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-10	CS-10 (3.0')	Total/NA	Solid	5035	
880-27935-11	CS-11 (2')	Total/NA	Solid	5035	
880-27935-12	CS-12 (2')	Total/NA	Solid	5035	
880-27935-13	CS-13 (2')	Total/NA	Solid	5035	
880-27935-14	CS-14 (2')	Total/NA	Solid	5035	
880-27935-15	CS-15 (2')	Total/NA	Solid	5035	
880-27935-16	CS-16 (2')	Total/NA	Solid	5035	
880-27935-17	CS-17 (2')	Total/NA	Solid	5035	
880-27935-18	SW-1 (1.5')	Total/NA	Solid	5035	
MB 880-52516/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52516/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-52516/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4607-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-4607-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 52564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-10	CS-10 (3.0')	Total/NA	Solid	8021B	52516
880-27935-11	CS-11 (2')	Total/NA	Solid	8021B	52516
880-27935-12	CS-12 (2')	Total/NA	Solid	8021B	52516
880-27935-13	CS-13 (2')	Total/NA	Solid	8021B	52516
880-27935-14	CS-14 (2')	Total/NA	Solid	8021B	52516
880-27935-15	CS-15 (2')	Total/NA	Solid	8021B	52516
880-27935-16	CS-16 (2')	Total/NA	Solid	8021B	52516
880-27935-17	CS-17 (2')	Total/NA	Solid	8021B	52516
880-27935-18	SW-1 (1.5')	Total/NA	Solid	8021B	52516
MB 880-52516/5-A	Method Blank	Total/NA	Solid	8021B	52516
LCS 880-52516/1-A	Lab Control Sample	Total/NA	Solid	8021B	52516
LCSD 880-52516/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52516
890-4607-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	52516
890-4607-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	52516

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

GC VOA

Analysis Batch: 52565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-1	CS-1 (1.5')	Total/NA	Solid	8021B	52509
880-27935-2	CS-2 (1.5')	Total/NA	Solid	8021B	52509
880-27935-3	CS-3 (1.5')	Total/NA	Solid	8021B	52509
880-27935-4	CS-4 (1.5')	Total/NA	Solid	8021B	52509
880-27935-5	CS-5 (1.5')	Total/NA	Solid	8021B	52509
880-27935-6	CS-6 (1.5')	Total/NA	Solid	8021B	52509
880-27935-7	CS-7 (1.5')	Total/NA	Solid	8021B	52509
880-27935-8	CS-8 (1.5')	Total/NA	Solid	8021B	52509
880-27935-9	CS-9 (3.0')	Total/NA	Solid	8021B	52509
MB 880-52509/5-A	Method Blank	Total/NA	Solid	8021B	52509
LCS 880-52509/1-A	Lab Control Sample	Total/NA	Solid	8021B	52509
LCSD 880-52509/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52509
890-4605-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	52509
890-4605-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	52509

Analysis Batch: 52566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-19	SW-2 (1.5')	Total/NA	Solid	8021B	52593
880-27935-20	SW-3 (1.5')	Total/NA	Solid	8021B	52593
880-27935-21	SW-4 (1.5')	Total/NA	Solid	8021B	52593
880-27935-22	SW-5 (3')	Total/NA	Solid	8021B	52593
880-27935-23	SW-6 (3')	Total/NA	Solid	8021B	52593
880-27935-24	SW-7 (1')	Total/NA	Solid	8021B	52593
880-27935-25	SW-8 (2')	Total/NA	Solid	8021B	52593
880-27935-26	SW-9 (2')	Total/NA	Solid	8021B	52593
880-27935-27	SW-10 (2')	Total/NA	Solid	8021B	52593
880-27935-28	SW-11 (2')	Total/NA	Solid	8021B	52593
MB 880-52593/5-A	Method Blank	Total/NA	Solid	8021B	52593
LCS 880-52593/1-A	Lab Control Sample	Total/NA	Solid	8021B	52593
LCSD 880-52593/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52593
880-27935-19 MS	SW-2 (1.5')	Total/NA	Solid	8021B	52593
880-27935-19 MSD	SW-2 (1.5')	Total/NA	Solid	8021B	52593

Prep Batch: 52593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-19	SW-2 (1.5')	Total/NA	Solid	5035	
880-27935-20	SW-3 (1.5')	Total/NA	Solid	5035	
880-27935-21	SW-4 (1.5')	Total/NA	Solid	5035	
880-27935-22	SW-5 (3')	Total/NA	Solid	5035	
880-27935-23	SW-6 (3')	Total/NA	Solid	5035	
880-27935-24	SW-7 (1')	Total/NA	Solid	5035	
880-27935-25	SW-8 (2')	Total/NA	Solid	5035	
880-27935-26	SW-9 (2')	Total/NA	Solid	5035	
880-27935-27	SW-10 (2')	Total/NA	Solid	5035	
880-27935-28	SW-11 (2')	Total/NA	Solid	5035	
MB 880-52593/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52593/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-52593/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-27935-19 MS	SW-2 (1.5')	Total/NA	Solid	5035	
880-27935-19 MSD	SW-2 (1.5')	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

GC VOA

Analysis Batch: 52652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-1	CS-1 (1.5')	Total/NA	Solid	Total BTEX	
880-27935-2	CS-2 (1.5')	Total/NA	Solid	Total BTEX	
880-27935-3	CS-3 (1.5')	Total/NA	Solid	Total BTEX	
880-27935-4	CS-4 (1.5')	Total/NA	Solid	Total BTEX	
880-27935-5	CS-5 (1.5')	Total/NA	Solid	Total BTEX	
880-27935-6	CS-6 (1.5')	Total/NA	Solid	Total BTEX	
880-27935-7	CS-7 (1.5')	Total/NA	Solid	Total BTEX	
880-27935-8	CS-8 (1.5')	Total/NA	Solid	Total BTEX	
880-27935-9	CS-9 (3.0')	Total/NA	Solid	Total BTEX	
880-27935-10	CS-10 (3.0')	Total/NA	Solid	Total BTEX	
880-27935-11	CS-11 (2')	Total/NA	Solid	Total BTEX	
880-27935-12	CS-12 (2')	Total/NA	Solid	Total BTEX	
880-27935-13	CS-13 (2')	Total/NA	Solid	Total BTEX	
880-27935-14	CS-14 (2')	Total/NA	Solid	Total BTEX	
880-27935-15	CS-15 (2')	Total/NA	Solid	Total BTEX	
880-27935-16	CS-16 (2')	Total/NA	Solid	Total BTEX	
880-27935-17	CS-17 (2')	Total/NA	Solid	Total BTEX	
880-27935-18	SW-1 (1.5')	Total/NA	Solid	Total BTEX	
880-27935-19	SW-2 (1.5')	Total/NA	Solid	Total BTEX	
880-27935-20	SW-3 (1.5')	Total/NA	Solid	Total BTEX	
880-27935-21	SW-4 (1.5')	Total/NA	Solid	Total BTEX	
880-27935-22	SW-5 (3')	Total/NA	Solid	Total BTEX	
880-27935-23	SW-6 (3')	Total/NA	Solid	Total BTEX	
880-27935-24	SW-7 (1')	Total/NA	Solid	Total BTEX	
880-27935-25	SW-8 (2')	Total/NA	Solid	Total BTEX	
880-27935-26	SW-9 (2')	Total/NA	Solid	Total BTEX	
880-27935-27	SW-10 (2')	Total/NA	Solid	Total BTEX	
880-27935-28	SW-11 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 52567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-1	CS-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-27935-2	CS-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-27935-3	CS-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-27935-4	CS-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-27935-5	CS-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-27935-6	CS-6 (1.5')	Total/NA	Solid	8015NM Prep	
880-27935-7	CS-7 (1.5')	Total/NA	Solid	8015NM Prep	
880-27935-8	CS-8 (1.5')	Total/NA	Solid	8015NM Prep	
880-27935-9	CS-9 (3.0')	Total/NA	Solid	8015NM Prep	
880-27935-10	CS-10 (3.0')	Total/NA	Solid	8015NM Prep	
880-27935-11	CS-11 (2')	Total/NA	Solid	8015NM Prep	
880-27935-12	CS-12 (2')	Total/NA	Solid	8015NM Prep	
880-27935-13	CS-13 (2')	Total/NA	Solid	8015NM Prep	
880-27935-14	CS-14 (2')	Total/NA	Solid	8015NM Prep	
880-27935-15	CS-15 (2')	Total/NA	Solid	8015NM Prep	
880-27935-16	CS-16 (2')	Total/NA	Solid	8015NM Prep	
880-27935-17	CS-17 (2')	Total/NA	Solid	8015NM Prep	
880-27935-18	SW-1 (1.5')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

GC Semi VOA (Continued)

Prep Batch: 52567 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-19	SW-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-27935-20	SW-3 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-52567/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-52567/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-52567/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-27935-1 MS	CS-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-27935-1 MSD	CS-1 (1.5')	Total/NA	Solid	8015NM Prep	

Prep Batch: 52568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-21	SW-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-27935-22	SW-5 (3')	Total/NA	Solid	8015NM Prep	
880-27935-23	SW-6 (3')	Total/NA	Solid	8015NM Prep	
880-27935-24	SW-7 (1')	Total/NA	Solid	8015NM Prep	
880-27935-25	SW-8 (2')	Total/NA	Solid	8015NM Prep	
880-27935-26	SW-9 (2')	Total/NA	Solid	8015NM Prep	
880-27935-27	SW-10 (2')	Total/NA	Solid	8015NM Prep	
880-27935-28	SW-11 (2')	Total/NA	Solid	8015NM Prep	
MB 880-52568/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-52568/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-52568/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-27935-21 MS	SW-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-27935-21 MSD	SW-4 (1.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 52587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-1	CS-1 (1.5')	Total/NA	Solid	8015B NM	52567
880-27935-2	CS-2 (1.5')	Total/NA	Solid	8015B NM	52567
880-27935-3	CS-3 (1.5')	Total/NA	Solid	8015B NM	52567
880-27935-4	CS-4 (1.5')	Total/NA	Solid	8015B NM	52567
880-27935-5	CS-5 (1.5')	Total/NA	Solid	8015B NM	52567
880-27935-6	CS-6 (1.5')	Total/NA	Solid	8015B NM	52567
880-27935-7	CS-7 (1.5')	Total/NA	Solid	8015B NM	52567
880-27935-8	CS-8 (1.5')	Total/NA	Solid	8015B NM	52567
880-27935-9	CS-9 (3.0')	Total/NA	Solid	8015B NM	52567
880-27935-10	CS-10 (3.0')	Total/NA	Solid	8015B NM	52567
880-27935-11	CS-11 (2')	Total/NA	Solid	8015B NM	52567
880-27935-12	CS-12 (2')	Total/NA	Solid	8015B NM	52567
880-27935-13	CS-13 (2')	Total/NA	Solid	8015B NM	52567
880-27935-14	CS-14 (2')	Total/NA	Solid	8015B NM	52567
880-27935-15	CS-15 (2')	Total/NA	Solid	8015B NM	52567
880-27935-16	CS-16 (2')	Total/NA	Solid	8015B NM	52567
880-27935-17	CS-17 (2')	Total/NA	Solid	8015B NM	52567
880-27935-18	SW-1 (1.5')	Total/NA	Solid	8015B NM	52567
880-27935-19	SW-2 (1.5')	Total/NA	Solid	8015B NM	52567
880-27935-20	SW-3 (1.5')	Total/NA	Solid	8015B NM	52567
MB 880-52567/1-A	Method Blank	Total/NA	Solid	8015B NM	52567
LCS 880-52567/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	52567
LCSD 880-52567/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	52567
880-27935-1 MS	CS-1 (1.5')	Total/NA	Solid	8015B NM	52567
880-27935-1 MSD	CS-1 (1.5')	Total/NA	Solid	8015B NM	52567

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

GC Semi VOA

Analysis Batch: 52589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-21	SW-4 (1.5')	Total/NA	Solid	8015B NM	52568
880-27935-22	SW-5 (3')	Total/NA	Solid	8015B NM	52568
880-27935-23	SW-6 (3')	Total/NA	Solid	8015B NM	52568
880-27935-24	SW-7 (1')	Total/NA	Solid	8015B NM	52568
880-27935-25	SW-8 (2')	Total/NA	Solid	8015B NM	52568
880-27935-26	SW-9 (2')	Total/NA	Solid	8015B NM	52568
880-27935-27	SW-10 (2')	Total/NA	Solid	8015B NM	52568
880-27935-28	SW-11 (2')	Total/NA	Solid	8015B NM	52568
MB 880-52568/1-A	Method Blank	Total/NA	Solid	8015B NM	52568
LCS 880-52568/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	52568
LCSD 880-52568/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	52568
880-27935-21 MS	SW-4 (1.5')	Total/NA	Solid	8015B NM	52568
880-27935-21 MSD	SW-4 (1.5')	Total/NA	Solid	8015B NM	52568

Analysis Batch: 52649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-1	CS-1 (1.5')	Total/NA	Solid	8015 NM	
880-27935-2	CS-2 (1.5')	Total/NA	Solid	8015 NM	
880-27935-3	CS-3 (1.5')	Total/NA	Solid	8015 NM	
880-27935-4	CS-4 (1.5')	Total/NA	Solid	8015 NM	
880-27935-5	CS-5 (1.5')	Total/NA	Solid	8015 NM	
880-27935-6	CS-6 (1.5')	Total/NA	Solid	8015 NM	
880-27935-7	CS-7 (1.5')	Total/NA	Solid	8015 NM	
880-27935-8	CS-8 (1.5')	Total/NA	Solid	8015 NM	
880-27935-9	CS-9 (3.0')	Total/NA	Solid	8015 NM	
880-27935-10	CS-10 (3.0')	Total/NA	Solid	8015 NM	
880-27935-11	CS-11 (2')	Total/NA	Solid	8015 NM	
880-27935-12	CS-12 (2')	Total/NA	Solid	8015 NM	
880-27935-13	CS-13 (2')	Total/NA	Solid	8015 NM	
880-27935-14	CS-14 (2')	Total/NA	Solid	8015 NM	
880-27935-15	CS-15 (2')	Total/NA	Solid	8015 NM	
880-27935-16	CS-16 (2')	Total/NA	Solid	8015 NM	
880-27935-17	CS-17 (2')	Total/NA	Solid	8015 NM	
880-27935-18	SW-1 (1.5')	Total/NA	Solid	8015 NM	
880-27935-19	SW-2 (1.5')	Total/NA	Solid	8015 NM	
880-27935-20	SW-3 (1.5')	Total/NA	Solid	8015 NM	
880-27935-21	SW-4 (1.5')	Total/NA	Solid	8015 NM	
880-27935-22	SW-5 (3')	Total/NA	Solid	8015 NM	
880-27935-23	SW-6 (3')	Total/NA	Solid	8015 NM	
880-27935-24	SW-7 (1')	Total/NA	Solid	8015 NM	
880-27935-25	SW-8 (2')	Total/NA	Solid	8015 NM	
880-27935-26	SW-9 (2')	Total/NA	Solid	8015 NM	
880-27935-27	SW-10 (2')	Total/NA	Solid	8015 NM	
880-27935-28	SW-11 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 52569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-1	CS-1 (1.5')	Soluble	Solid	DI Leach	
880-27935-2	CS-2 (1.5')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

HPLC/IC (Continued)

Leach Batch: 52569 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-3	CS-3 (1.5')	Soluble	Solid	DI Leach	
880-27935-4	CS-4 (1.5')	Soluble	Solid	DI Leach	
880-27935-5	CS-5 (1.5')	Soluble	Solid	DI Leach	
880-27935-6	CS-6 (1.5')	Soluble	Solid	DI Leach	
880-27935-7	CS-7 (1.5')	Soluble	Solid	DI Leach	
880-27935-8	CS-8 (1.5')	Soluble	Solid	DI Leach	
880-27935-9	CS-9 (3.0')	Soluble	Solid	DI Leach	
880-27935-10	CS-10 (3.0')	Soluble	Solid	DI Leach	
880-27935-11	CS-11 (2')	Soluble	Solid	DI Leach	
880-27935-12	CS-12 (2')	Soluble	Solid	DI Leach	
880-27935-13	CS-13 (2')	Soluble	Solid	DI Leach	
880-27935-14	CS-14 (2')	Soluble	Solid	DI Leach	
880-27935-15	CS-15 (2')	Soluble	Solid	DI Leach	
880-27935-16	CS-16 (2')	Soluble	Solid	DI Leach	
880-27935-17	CS-17 (2')	Soluble	Solid	DI Leach	
880-27935-18	SW-1 (1.5')	Soluble	Solid	DI Leach	
880-27935-19	SW-2 (1.5')	Soluble	Solid	DI Leach	
880-27935-20	SW-3 (1.5')	Soluble	Solid	DI Leach	
MB 880-52569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-52569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-52569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-27935-1 MS	CS-1 (1.5')	Soluble	Solid	DI Leach	
880-27935-1 MSD	CS-1 (1.5')	Soluble	Solid	DI Leach	
880-27935-11 MS	CS-11 (2')	Soluble	Solid	DI Leach	
880-27935-11 MSD	CS-11 (2')	Soluble	Solid	DI Leach	

Leach Batch: 52570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-21	SW-4 (1.5')	Soluble	Solid	DI Leach	
880-27935-22	SW-5 (3')	Soluble	Solid	DI Leach	
880-27935-23	SW-6 (3')	Soluble	Solid	DI Leach	
880-27935-24	SW-7 (1')	Soluble	Solid	DI Leach	
880-27935-25	SW-8 (2')	Soluble	Solid	DI Leach	
880-27935-26	SW-9 (2')	Soluble	Solid	DI Leach	
880-27935-27	SW-10 (2')	Soluble	Solid	DI Leach	
880-27935-28	SW-11 (2')	Soluble	Solid	DI Leach	
MB 880-52570/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-52570/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-52570/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-27932-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-27932-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 52637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-21	SW-4 (1.5')	Soluble	Solid	300.0	52570
880-27935-22	SW-5 (3')	Soluble	Solid	300.0	52570
880-27935-23	SW-6 (3')	Soluble	Solid	300.0	52570
880-27935-24	SW-7 (1')	Soluble	Solid	300.0	52570
880-27935-25	SW-8 (2')	Soluble	Solid	300.0	52570
880-27935-26	SW-9 (2')	Soluble	Solid	300.0	52570
880-27935-27	SW-10 (2')	Soluble	Solid	300.0	52570

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

HPLC/IC (Continued)

Analysis Batch: 52637 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-28	SW-11 (2')	Soluble	Solid	300.0	52570
MB 880-52570/1-A	Method Blank	Soluble	Solid	300.0	52570
LCS 880-52570/2-A	Lab Control Sample	Soluble	Solid	300.0	52570
LCSD 880-52570/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	52570
880-27932-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	52570
880-27932-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	52570

Analysis Batch: 52639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27935-1	CS-1 (1.5')	Soluble	Solid	300.0	52569
880-27935-2	CS-2 (1.5')	Soluble	Solid	300.0	52569
880-27935-3	CS-3 (1.5')	Soluble	Solid	300.0	52569
880-27935-4	CS-4 (1.5')	Soluble	Solid	300.0	52569
880-27935-5	CS-5 (1.5')	Soluble	Solid	300.0	52569
880-27935-6	CS-6 (1.5')	Soluble	Solid	300.0	52569
880-27935-7	CS-7 (1.5')	Soluble	Solid	300.0	52569
880-27935-8	CS-8 (1.5')	Soluble	Solid	300.0	52569
880-27935-9	CS-9 (3.0')	Soluble	Solid	300.0	52569
880-27935-10	CS-10 (3.0')	Soluble	Solid	300.0	52569
880-27935-11	CS-11 (2')	Soluble	Solid	300.0	52569
880-27935-12	CS-12 (2')	Soluble	Solid	300.0	52569
880-27935-13	CS-13 (2')	Soluble	Solid	300.0	52569
880-27935-14	CS-14 (2')	Soluble	Solid	300.0	52569
880-27935-15	CS-15 (2')	Soluble	Solid	300.0	52569
880-27935-16	CS-16 (2')	Soluble	Solid	300.0	52569
880-27935-17	CS-17 (2')	Soluble	Solid	300.0	52569
880-27935-18	SW-1 (1.5')	Soluble	Solid	300.0	52569
880-27935-19	SW-2 (1.5')	Soluble	Solid	300.0	52569
880-27935-20	SW-3 (1.5')	Soluble	Solid	300.0	52569
MB 880-52569/1-A	Method Blank	Soluble	Solid	300.0	52569
LCS 880-52569/2-A	Lab Control Sample	Soluble	Solid	300.0	52569
LCSD 880-52569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	52569
880-27935-1 MS	CS-1 (1.5')	Soluble	Solid	300.0	52569
880-27935-1 MSD	CS-1 (1.5')	Soluble	Solid	300.0	52569
880-27935-11 MS	CS-11 (2')	Soluble	Solid	300.0	52569
880-27935-11 MSD	CS-11 (2')	Soluble	Solid	300.0	52569

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-1 (1.5')

Lab Sample ID: 880-27935-1

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52509	05/04/23 08:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52565	05/04/23 11:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 11:49	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 17:27	SMC	EET MID

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-27935-2

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52509	05/04/23 08:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52565	05/04/23 11:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 13:04	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 18:44	SMC	EET MID

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-27935-3

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	52509	05/04/23 12:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52565	05/04/23 15:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 13:26	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 18:49	SMC	EET MID

Client Sample ID: CS-4 (1.5')

Lab Sample ID: 880-27935-4

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52509	05/04/23 12:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52565	05/04/23 16:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:39	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-4 (1.5')

Lab Sample ID: 880-27935-4

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 13:48	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 18:54	SMC	EET MID

Client Sample ID: CS-5 (1.5')

Lab Sample ID: 880-27935-5

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52509	05/04/23 12:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52565	05/04/23 17:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 14:10	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 18:59	SMC	EET MID

Client Sample ID: CS-6 (1.5')

Lab Sample ID: 880-27935-6

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52509	05/04/23 12:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52565	05/04/23 17:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 14:32	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 19:13	SMC	EET MID

Client Sample ID: CS-7 (1.5')

Lab Sample ID: 880-27935-7

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	52509	05/04/23 12:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52565	05/04/23 17:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 14:54	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-7 (1.5')

Lab Sample ID: 880-27935-7

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 19:18	SMC	EET MID

Client Sample ID: CS-8 (1.5')

Lab Sample ID: 880-27935-8

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52509	05/04/23 12:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52565	05/04/23 18:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 15:15	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 19:23	SMC	EET MID

Client Sample ID: CS-9 (3.0')

Lab Sample ID: 880-27935-9

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52509	05/04/23 12:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52565	05/04/23 18:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 15:37	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 19:28	SMC	EET MID

Client Sample ID: CS-10 (3.0')

Lab Sample ID: 880-27935-10

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	52516	05/04/23 08:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 12:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 15:59	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 19:33	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-11 (2')

Lab Sample ID: 880-27935-11

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52516	05/04/23 08:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 12:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 16:56	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 19:38	SMC	EET MID

Client Sample ID: CS-12 (2')

Lab Sample ID: 880-27935-12

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52516	05/04/23 08:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 13:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 17:18	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 19:52	SMC	EET MID

Client Sample ID: CS-13 (2')

Lab Sample ID: 880-27935-13

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52516	05/04/23 08:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 13:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 17:39	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 19:57	SMC	EET MID

Client Sample ID: CS-14 (2')

Lab Sample ID: 880-27935-14

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52516	05/04/23 08:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 14:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:45	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-14 (2')

Lab Sample ID: 880-27935-14

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 18:00	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 20:11	SMC	EET MID

Client Sample ID: CS-15 (2')

Lab Sample ID: 880-27935-15

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52516	05/04/23 08:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 14:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 18:22	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 20:16	SMC	EET MID

Client Sample ID: CS-16 (2')

Lab Sample ID: 880-27935-16

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52516	05/04/23 08:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 15:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 18:44	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 20:40	SMC	EET MID

Client Sample ID: CS-17 (2')

Lab Sample ID: 880-27935-17

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	52516	05/04/23 08:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 15:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 19:05	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: CS-17 (2')

Date Collected: 05/03/23 00:00

Date Received: 05/04/23 08:31

Lab Sample ID: 880-27935-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 20:21	SMC	EET MID

Client Sample ID: SW-1 (1.5')

Date Collected: 05/03/23 00:00

Date Received: 05/04/23 08:31

Lab Sample ID: 880-27935-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	52516	05/04/23 08:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 16:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 19:26	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 20:26	SMC	EET MID

Client Sample ID: SW-2 (1.5')

Date Collected: 05/03/23 00:00

Date Received: 05/04/23 08:31

Lab Sample ID: 880-27935-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	52593	05/04/23 10:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/04/23 15:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 19:47	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 20:31	SMC	EET MID

Client Sample ID: SW-3 (1.5')

Date Collected: 05/03/23 00:00

Date Received: 05/04/23 08:31

Lab Sample ID: 880-27935-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	52593	05/04/23 10:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/04/23 16:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	52567	05/04/23 08:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52587	05/04/23 20:09	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	52569	05/04/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52639	05/04/23 20:36	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: SW-4 (1.5')

Lab Sample ID: 880-27935-21

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52593	05/04/23 10:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/04/23 17:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52568	05/04/23 08:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52589	05/04/23 11:49	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	52570	05/04/23 09:35	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52637	05/04/23 17:29	SMC	EET MID

Client Sample ID: SW-5 (3')

Lab Sample ID: 880-27935-22

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52593	05/04/23 10:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/04/23 17:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52568	05/04/23 08:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52589	05/04/23 13:04	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	52570	05/04/23 09:35	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52637	05/04/23 17:34	SMC	EET MID

Client Sample ID: SW-6 (3')

Lab Sample ID: 880-27935-23

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	52593	05/04/23 10:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/04/23 17:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52568	05/04/23 08:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52589	05/04/23 13:26	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52570	05/04/23 09:35	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52637	05/04/23 17:39	SMC	EET MID

Client Sample ID: SW-7 (1')

Lab Sample ID: 880-27935-24

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52593	05/04/23 10:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/04/23 18:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:43	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: SW-7 (1')

Lab Sample ID: 880-27935-24

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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			52649	05/04/23 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52568	05/04/23 08:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52589	05/04/23 13:48	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52570	05/04/23 09:35	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52637	05/04/23 17:45	SMC	EET MID

Client Sample ID: SW-8 (2')

Lab Sample ID: 880-27935-25

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52593	05/04/23 10:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/04/23 18:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52568	05/04/23 08:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52589	05/04/23 14:10	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	52570	05/04/23 09:35	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52637	05/04/23 18:01	SMC	EET MID

Client Sample ID: SW-9 (2')

Lab Sample ID: 880-27935-26

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52593	05/04/23 10:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/04/23 18:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52568	05/04/23 08:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52589	05/04/23 14:32	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	52570	05/04/23 09:35	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52637	05/04/23 18:38	SMC	EET MID

Client Sample ID: SW-10 (2')

Lab Sample ID: 880-27935-27

Date Collected: 05/03/23 00:00

Matrix: Solid

Date Received: 05/04/23 08:31

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	52593	05/04/23 10:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/04/23 19:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52568	05/04/23 08:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52589	05/04/23 14:54	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Client Sample ID: SW-10 (2')
Date Collected: 05/03/23 00:00
Date Received: 05/04/23 08:31

Lab Sample ID: 880-27935-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	52570	05/04/23 09:35	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52637	05/04/23 18:44	SMC	EET MID

Client Sample ID: SW-11 (2')
Date Collected: 05/03/23 00:00
Date Received: 05/04/23 08:31

Lab Sample ID: 880-27935-28
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	52593	05/04/23 10:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/04/23 19:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52652	05/04/23 20:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52649	05/04/23 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52568	05/04/23 08:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52589	05/04/23 15:15	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52570	05/04/23 09:35	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52637	05/04/23 18:49	SMC	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

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

Method Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

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	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-27935-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-27935-1	CS-1 (1.5')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-2	CS-2 (1.5')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-3	CS-3 (1.5')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-4	CS-4 (1.5')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-5	CS-5 (1.5')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-6	CS-6 (1.5')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-7	CS-7 (1.5')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-8	CS-8 (1.5')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-9	CS-9 (3.0')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-10	CS-10 (3.0')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-11	CS-11 (2')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-12	CS-12 (2')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-13	CS-13 (2')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-14	CS-14 (2')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-15	CS-15 (2')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-16	CS-16 (2')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-17	CS-17 (2')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-18	SW-1 (1.5')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-19	SW-2 (1.5')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-20	SW-3 (1.5')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-21	SW-4 (1.5')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-22	SW-5 (3')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-23	SW-6 (3')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-24	SW-7 (1')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-25	SW-8 (2')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-26	SW-9 (2')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-27	SW-10 (2')	Solid	05/03/23 00:00	05/04/23 08:31
880-27935-28	SW-11 (2')	Solid	05/03/23 00:00	05/04/23 08:31

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ork Order No: 21935

5/5/2023

880-27935 Chain of Custody

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Project Manager	Conner Moehring	Bill to (if different)	Grant Huckabee/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@fort.com & addisonG@fort.com

Work Order Comments	
Program: UST/PST	☐ PRP ☐ Brownfields ☐ RC ☐ Inertland
State of Project:	
Reporting Level II	☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV
Deliverables	EDD ☐ ADAPT ☐ Other

Project Name	Shell Federal #2 SWD		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number	1194	☐ Routine ☒ Rush	Due Date	24 Hrs														None NO	DI Water H ₂ O
Project Location	Eddy County, New Mexico																	Cool Cool	MeOH Me
Sampler's Name	MM																	HCL, HC	HNO ₃ HN
PO #																		H ₂ SO ₄ H ₂	NaOH Na
SAMPLE RECEIPT	Temp Blank	☒ Yes ☐ No	Thermometer ID	Wet Ice	☒ Yes ☐ No													H ₃ PO ₄ HP	
Received Intact:	☒ Yes ☐ No																	NaHSO ₄ , NABIS	
Cooler Custody Seals	Yes	No	N/A	Correction Factor	0.3													Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals	Yes	No	N/A	Temperature Reading	-2.5													Zn Acetate+NaOH Zn	
Total Containers				Corrected Temperature	-2.9													NaOH+Ascorbic Acid SAPC	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments
CS-1 (1 5)	5/3/2023		X		C	1	X	X	X										
CS-2 (1 5)	5/3/2023		X		C	1	X	X	X										
CS-3 (1 5)	5/3/2023		X		C	1	X	X	X										
CS-4 (1 5)	5/3/2023		X		C	1	X	X	X										
CS-5 (1 5)	5/3/2023		X		C	1	X	X	X										
CS-6 (1 5)	5/3/2023		X		C	1	X	X	X										
CS-7 (1 5)	5/3/2023		X		C	1	X	X	X										
CS-8 (1 5)	5/3/2023		X		C	1	X	X	X										
CS-9 (3 0)	5/3/2023		X		C	1	X	X	X										
CS-10 (3 0)	5/3/2023		X		C	1	X	X	X										

Comments:

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
			5/4/23
			231

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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 & addisonG@forl.com

Work Order Comments	
Program: UST/PST	☐ PRP ☐ Brownfields ☐ RC ☐ Iperfund
State of Project:	
Reporting Level II	☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV
Deliverables	EDD ☐ ADAPT ☐ Other

Project Name		Shell Federal #2 SWD		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes												
Project Number	1194		ie	☒ 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	MM																	HCL	HC	HNO ₃	HN										
PO #:																		H ₂ SO ₄	H ₂	NaOH	Na										
SAMPLE RECEIPT	Temp Blank	Yes	No	Yes	No	Wet Ice	Yes	No	Parameters												H ₃ PO ₄	HP									
	Received Intact:	Yes	No	Thermometer ID																	NaHSO ₄	NABIS									
	Cooler Custody Seals	Yes	No	N/A	Correction Factor																Na ₂ S ₂ O ₃	NaSO ₃									
	Sample Custody Seals:	Yes	No	N/A	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-11 (2)		5/3/2023		X		C	1	X	X	X																					
CS-12 (2)		5/3/2023		X		C	1	X	X	X																					
CS-13 (2)		5/3/2023		X		C	1	X	X	X																					
CS-14 (2)		5/3/2023		X		C	1	X	X	X																					
CS-15 (2)		5/3/2023		X		C	1	X	X	X																					
CS-16 (2)		5/3/2023		X		C	1	X	X	X																					
CS-17 (2)		5/3/2023		X		C	1	X	X	X																					
SW-1 (1 5)		5/3/2023		X		C	1	X	X	X																					
SW-2 (1 5)		5/3/2023		X		C	1	X	X	X																					
SW-3 (1 5)		5/3/2023		X		C	1	X	X	X																					

Comments:

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

Work Order No: _____

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Work Order No: _____

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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 & addisonG@forl.com

Work Order Comments	
Program, UST/PST	☐ PRP ☐ Brownfields ☐ RC ☐ Inert ☐
State of Project	
Reporting Level II	☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables EDD	☐ ADAPT ☐ Other

Project Name	Shell Federal #2 SWD		Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number	1194		☒ 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	MM																HCL HC	HNO ₃ HN	
PO #																	H ₂ SO ₄ H ₂	NaOH Na	
SAMPLE RECEIPT	Temp Blank	Yes No	Thermometer ID	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 SAPC	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments
SW-4 (1 5)	5/3/2023		X		C	1	X	X	X										
SW-5 (3)	5/3/2023		X		C	1	X	X	X										
SW-6 (3)	5/3/2023		X		C	1	X	X	X										
SW-7 (1)	5/3/2023		X		C	1	X	X	X										
SW-8 (2)	5/3/2023		X		C	1	X	X	X										
SW-9 (2)	5/3/2023		X		C	1	X	X	X										
SW-10 (2)	5/3/2023		X		C	1	X	X	X										
SW-11 (2)	5/3/2023		X		C	1	X	X	X										

Comments:

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-27935-1

Login Number: 27935

List Source: Eurofins Midland

List Number: 1

Creator: Kramer, Jessica

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/8/2023 4:03:22 PM

JOB DESCRIPTION

Shell Federal #2 SWD
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-28044-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



Generated
5/8/2023 4:03:22 PM

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

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Laboratory Job ID: 880-28044-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-28044-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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

Case Narrative

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-28044-1
SDG: Eddy County, New Mexico

Job ID: 880-28044-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-28044-1****Receipt**

The samples were received on 5/5/2023 4:36 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -4.0°C

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-52803 and analytical batch 880-52798 were outside control limits. Non-homogeneity is 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

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-2 (1.75') (880-28044-1), CS-7 (1.75') (880-28044-2), CS-11 (2.75') (880-28044-3), (LCS 880-52801/2-A), (LCSD 880-52801/3-A), (MB 880-52801/1-A), (890-4615-A-1-B), (890-4615-A-1-C MS) and (890-4615-A-1-D 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 for preparation batch 880-52709 and 880-52709 and analytical batch 880-52768 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: CS-2 (1.75') (880-28044-1), CS-7 (1.75') (880-28044-2), CS-11 (2.75') (880-28044-3), (880-28037-A-3-A), (880-28037-A-3-B MS) and (880-28037-A-3-C MSD).

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 #2 SWD

Job ID: 880-28044-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-2 (1.75')

Lab Sample ID: 880-28044-1

Date Collected: 05/05/23 00:00

Matrix: Solid

Date Received: 05/05/23 16:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		05/08/23 09:13	05/08/23 12:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/08/23 09:13	05/08/23 12:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/08/23 09:13	05/08/23 12:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/08/23 09:13	05/08/23 12:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/08/23 09:13	05/08/23 12:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/08/23 09:13	05/08/23 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	05/08/23 09:13	05/08/23 12:07	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/08/23 09:13	05/08/23 12:07	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			05/08/23 16:04	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			05/08/23 16:53	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		05/08/23 09:00	05/08/23 12:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/08/23 09:00	05/08/23 12:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/08/23 09:00	05/08/23 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	05/08/23 09:00	05/08/23 12:19	1
o-Terphenyl	155	S1+	70 - 130	05/08/23 09:00	05/08/23 12:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.6		4.99		mg/Kg			05/05/23 22:12	1

Client Sample ID: CS-7 (1.75')

Lab Sample ID: 880-28044-2

Date Collected: 05/05/23 00:00

Matrix: Solid

Date Received: 05/05/23 16:36

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		05/08/23 09:13	05/08/23 12:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/08/23 09:13	05/08/23 12:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/08/23 09:13	05/08/23 12:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/08/23 09:13	05/08/23 12:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/08/23 09:13	05/08/23 12:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/08/23 09:13	05/08/23 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	05/08/23 09:13	05/08/23 12:28	1
1,4-Difluorobenzene (Surr)	113		70 - 130	05/08/23 09:13	05/08/23 12:28	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-28044-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-7 (1.75')

Lab Sample ID: 880-28044-2

Date Collected: 05/05/23 00:00

Matrix: Solid

Date Received: 05/05/23 16:36

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			05/08/23 16:04	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			05/08/23 16:53	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		05/08/23 09:00	05/08/23 12:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/08/23 09:00	05/08/23 12:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/08/23 09:00	05/08/23 12:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				05/08/23 09:00	05/08/23 12:40	1
o-Terphenyl	149	S1+	70 - 130				05/08/23 09:00	05/08/23 12:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.6		4.95		mg/Kg			05/05/23 22:17	1

Client Sample ID: CS-11 (2.75')

Lab Sample ID: 880-28044-3

Date Collected: 05/05/23 00:00

Matrix: Solid

Date Received: 05/05/23 16:36

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		05/08/23 09:13	05/08/23 12:48	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/08/23 09:13	05/08/23 12:48	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/08/23 09:13	05/08/23 12:48	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/08/23 09:13	05/08/23 12:48	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/08/23 09:13	05/08/23 12:48	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/08/23 09:13	05/08/23 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				05/08/23 09:13	05/08/23 12:48	1
1,4-Difluorobenzene (Surr)	111		70 - 130				05/08/23 09:13	05/08/23 12:48	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			05/08/23 16:04	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			05/08/23 16:53	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		05/08/23 09:00	05/08/23 13:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/08/23 09:00	05/08/23 13:02	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-28044-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-11 (2.75')

Lab Sample ID: 880-28044-3

Date Collected: 05/05/23 00:00

Matrix: Solid

Date Received: 05/05/23 16:36

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		05/08/23 09:00	05/08/23 13:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				05/08/23 09:00	05/08/23 13:02	1
o-Terphenyl	142	S1+	70 - 130				05/08/23 09:00	05/08/23 13:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.9		4.99		mg/Kg			05/05/23 22:32	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-28044-1
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)
880-28044-1	CS-2 (1.75')	100	100
880-28044-1 MS	CS-2 (1.75')	122	95
880-28044-1 MSD	CS-2 (1.75')	111	93
880-28044-2	CS-7 (1.75')	120	113
880-28044-3	CS-11 (2.75')	126	111
LCS 880-52803/1-A	Lab Control Sample	120	93
LCSD 880-52803/2-A	Lab Control Sample Dup	112	117
MB 880-52803/5-A	Method Blank	105	94
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)
880-28044-1	CS-2 (1.75')	136 S1+	155 S1+
880-28044-2	CS-7 (1.75')	133 S1+	149 S1+
880-28044-3	CS-11 (2.75')	118	142 S1+
890-4615-A-1-C MS	Matrix Spike	118	133 S1+
890-4615-A-1-D MSD	Matrix Spike Duplicate	117	135 S1+
LCS 880-52801/2-A	Lab Control Sample	135 S1+	161 S1+
LCSD 880-52801/3-A	Lab Control Sample Dup	132 S1+	159 S1+
MB 880-52801/1-A	Method Blank	114	149 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-28044-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-52803/5-A

Matrix: Solid

Analysis Batch: 52798

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/08/23 09:13	05/08/23 11:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/08/23 09:13	05/08/23 11:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/08/23 09:13	05/08/23 11:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/08/23 09:13	05/08/23 11:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/08/23 09:13	05/08/23 11:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/08/23 09:13	05/08/23 11:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	05/08/23 09:13	05/08/23 11:38	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/08/23 09:13	05/08/23 11:38	1

Lab Sample ID: LCS 880-52803/1-A

Matrix: Solid

Analysis Batch: 52798

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52803

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1210		mg/Kg		121	70 - 130
Toluene	0.100	0.1037		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.08954		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.2252		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1144		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-52803/2-A

Matrix: Solid

Analysis Batch: 52798

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52803

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1232		mg/Kg		123	70 - 130	2	35
Toluene	0.100	0.1026		mg/Kg		103	70 - 130	1	35
Ethylbenzene	0.100	0.08537		mg/Kg		85	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2292		mg/Kg		115	70 - 130	2	35
o-Xylene	0.100	0.1144		mg/Kg		114	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: 880-28044-1 MS

Matrix: Solid

Analysis Batch: 52798

Client Sample ID: CS-2 (1.75')

Prep Type: Total/NA

Prep Batch: 52803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0996	0.1335	F1	mg/Kg		134	70 - 130
Toluene	<0.00200	U	0.0996	0.09843		mg/Kg		99	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-28044-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28044-1 MS

Matrix: Solid

Analysis Batch: 52798

Client Sample ID: CS-2 (1.75')

Prep Type: Total/NA

Prep Batch: 52803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0996	0.08262		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.199	0.2231		mg/Kg		112	70 - 130
o-Xylene	<0.00200	U	0.0996	0.1114		mg/Kg		111	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-28044-1 MSD

Matrix: Solid

Analysis Batch: 52798

Client Sample ID: CS-2 (1.75')

Prep Type: Total/NA

Prep Batch: 52803

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0996	0.1107		mg/Kg		111	70 - 130	19	35
Toluene	<0.00200	U	0.0996	0.09530		mg/Kg		96	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0996	0.08180		mg/Kg		82	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1992		mg/Kg		100	70 - 130	11	35
o-Xylene	<0.00200	U	0.0996	0.1011		mg/Kg		101	70 - 130	10	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

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

Lab Sample ID: MB 880-52801/1-A

Matrix: Solid

Analysis Batch: 52790

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52801

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		05/08/23 09:00	05/08/23 08:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/08/23 09:00	05/08/23 08:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/08/23 09:00	05/08/23 08:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	05/08/23 09:00	05/08/23 08:37	1
o-Terphenyl	149	S1+	70 - 130	05/08/23 09:00	05/08/23 08:37	1

Lab Sample ID: LCS 880-52801/2-A

Matrix: Solid

Analysis Batch: 52790

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1138		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1147		mg/Kg		115	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-28044-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-52801/2-A
Matrix: Solid
Analysis Batch: 52790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52801

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	135	S1+	70 - 130
o-Terphenyl	161	S1+	70 - 130

Lab Sample ID: LCSD 880-52801/3-A
Matrix: Solid
Analysis Batch: 52790

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 52801

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1053		mg/Kg		105	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	1133		mg/Kg		113	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	159	S1+	70 - 130

Lab Sample ID: 890-4615-A-1-C MS
Matrix: Solid
Analysis Batch: 52790

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 52801

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	<49.9	U	998	926.2		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1060		mg/Kg		105	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	133	S1+	70 - 130

Lab Sample ID: 890-4615-A-1-D MSD
Matrix: Solid
Analysis Batch: 52790

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 52801

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	913.3		mg/Kg		90	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1063		mg/Kg		105	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	135	S1+	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-28044-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-52709/1-A

Matrix: Solid

Analysis Batch: 52768

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			05/05/23 20:35	1

Lab Sample ID: LCS 880-52709/2-A

Matrix: Solid

Analysis Batch: 52768

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	266.4		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-52709/3-A

Matrix: Solid

Analysis Batch: 52768

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	256.5		mg/Kg		103	90 - 110	4	20

Lab Sample ID: 880-28037-A-3-B MS

Matrix: Solid

Analysis Batch: 52768

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	699	F1	251	901.7	F1	mg/Kg		81	90 - 110

Lab Sample ID: 880-28037-A-3-C MSD

Matrix: Solid

Analysis Batch: 52768

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	699	F1	251	898.6	F1	mg/Kg		80	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-28044-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 52798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28044-1	CS-2 (1.75')	Total/NA	Solid	8021B	52803
880-28044-2	CS-7 (1.75')	Total/NA	Solid	8021B	52803
880-28044-3	CS-11 (2.75')	Total/NA	Solid	8021B	52803
MB 880-52803/5-A	Method Blank	Total/NA	Solid	8021B	52803
LCS 880-52803/1-A	Lab Control Sample	Total/NA	Solid	8021B	52803
LCSD 880-52803/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52803
880-28044-1 MS	CS-2 (1.75')	Total/NA	Solid	8021B	52803
880-28044-1 MSD	CS-2 (1.75')	Total/NA	Solid	8021B	52803

Prep Batch: 52803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28044-1	CS-2 (1.75')	Total/NA	Solid	5035	
880-28044-2	CS-7 (1.75')	Total/NA	Solid	5035	
880-28044-3	CS-11 (2.75')	Total/NA	Solid	5035	
MB 880-52803/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52803/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-52803/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-28044-1 MS	CS-2 (1.75')	Total/NA	Solid	5035	
880-28044-1 MSD	CS-2 (1.75')	Total/NA	Solid	5035	

Analysis Batch: 52868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28044-1	CS-2 (1.75')	Total/NA	Solid	Total BTEX	
880-28044-2	CS-7 (1.75')	Total/NA	Solid	Total BTEX	
880-28044-3	CS-11 (2.75')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 52790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28044-1	CS-2 (1.75')	Total/NA	Solid	8015B NM	52801
880-28044-2	CS-7 (1.75')	Total/NA	Solid	8015B NM	52801
880-28044-3	CS-11 (2.75')	Total/NA	Solid	8015B NM	52801
MB 880-52801/1-A	Method Blank	Total/NA	Solid	8015B NM	52801
LCS 880-52801/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	52801
LCSD 880-52801/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	52801
890-4615-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	52801
890-4615-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	52801

Prep Batch: 52801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28044-1	CS-2 (1.75')	Total/NA	Solid	8015NM Prep	
880-28044-2	CS-7 (1.75')	Total/NA	Solid	8015NM Prep	
880-28044-3	CS-11 (2.75')	Total/NA	Solid	8015NM Prep	
MB 880-52801/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-52801/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-52801/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4615-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4615-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-28044-1
SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 52879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28044-1	CS-2 (1.75')	Total/NA	Solid	8015 NM	
880-28044-2	CS-7 (1.75')	Total/NA	Solid	8015 NM	
880-28044-3	CS-11 (2.75')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 52709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28044-1	CS-2 (1.75')	Soluble	Solid	DI Leach	
880-28044-2	CS-7 (1.75')	Soluble	Solid	DI Leach	
880-28044-3	CS-11 (2.75')	Soluble	Solid	DI Leach	
MB 880-52709/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-52709/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-52709/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28037-A-3-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-28037-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 52768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28044-1	CS-2 (1.75')	Soluble	Solid	300.0	52709
880-28044-2	CS-7 (1.75')	Soluble	Solid	300.0	52709
880-28044-3	CS-11 (2.75')	Soluble	Solid	300.0	52709
MB 880-52709/1-A	Method Blank	Soluble	Solid	300.0	52709
LCS 880-52709/2-A	Lab Control Sample	Soluble	Solid	300.0	52709
LCSD 880-52709/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	52709
880-28037-A-3-B MS	Matrix Spike	Soluble	Solid	300.0	52709
880-28037-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	52709

Lab Chronicle

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-28044-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-2 (1.75')

Lab Sample ID: 880-28044-1

Date Collected: 05/05/23 00:00

Matrix: Solid

Date Received: 05/05/23 16:36

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	52803	05/08/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52798	05/08/23 12:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52868	05/08/23 16:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52879	05/08/23 16:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52801	05/08/23 09:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52790	05/08/23 12:19	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52709	05/05/23 17:00	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52768	05/05/23 22:12	SMC	EET MID

Client Sample ID: CS-7 (1.75')

Lab Sample ID: 880-28044-2

Date Collected: 05/05/23 00:00

Matrix: Solid

Date Received: 05/05/23 16:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	52803	05/08/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52798	05/08/23 12:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52868	05/08/23 16:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52879	05/08/23 16:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52801	05/08/23 09:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52790	05/08/23 12:40	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	52709	05/05/23 17:00	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52768	05/05/23 22:17	SMC	EET MID

Client Sample ID: CS-11 (2.75')

Lab Sample ID: 880-28044-3

Date Collected: 05/05/23 00:00

Matrix: Solid

Date Received: 05/05/23 16:36

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	52803	05/08/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52798	05/08/23 12:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52868	05/08/23 16:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52879	05/08/23 16:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52801	05/08/23 09:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52790	05/08/23 13:02	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52709	05/05/23 17:00	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52768	05/05/23 22:32	SMC	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 #2 SWD

Job ID: 880-28044-1
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	T104704400-22-25	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: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-28044-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Shell Federal #2 SWD

Job ID: 880-28044-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28044-1	CS-2 (1.75')	Solid	05/05/23 00:00	05/05/23 16:36
880-28044-2	CS-7 (1.75')	Solid	05/05/23 00:00	05/05/23 16:36
880-28044-3	CS-11 (2.75')	Solid	05/05/23 00:00	05/05/23 16:36

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

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Groundfields ☐ RRC ☐ ☐ perfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Work Order No: 28044

[illegible][illegible]

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-28044-1

SDG Number: Eddy County, New Mexico

Login Number: 28044

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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 216443

CONDITIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 216443
	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 #NAPP2231843027 SHELL FEDERAL 2 SWD, thank you. This closure is approved.	10/6/2023